# NAD SERVICE MANUAL

## MONITOR SERIES

# 2600

## POWER AMPLIFIER

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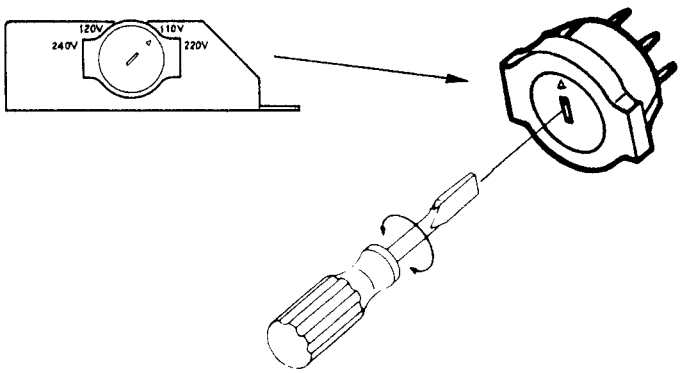
## VOLTAGE CONVERSION

The units for U.K., Australia, and Europe are incorporated with voltage selectors. When changing the voltage, set up the mark " ▷ " of the selector to an appropriate indication voltage as shown in the figure.



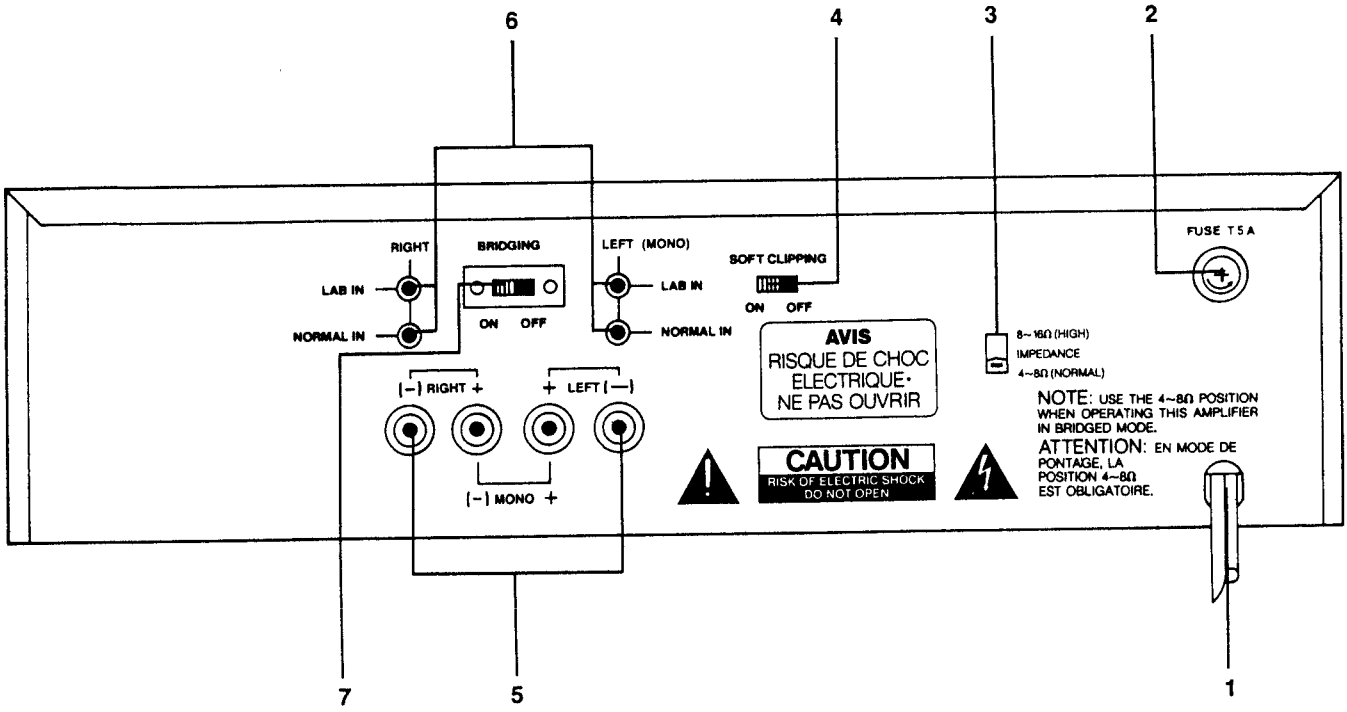

The mains fuse must be changed according to voltage: 110-120V 10A, 220-240V 5A.

## REAR PANEL

1. AC Line Cord.
2. AC Line Fuse (220V, 240V Models Only).
3. Speaker Impedance.
4. Soft Clipping.
5. Speaker terminals.
6. Inputs (Normal and Lab).
7. Bridging.

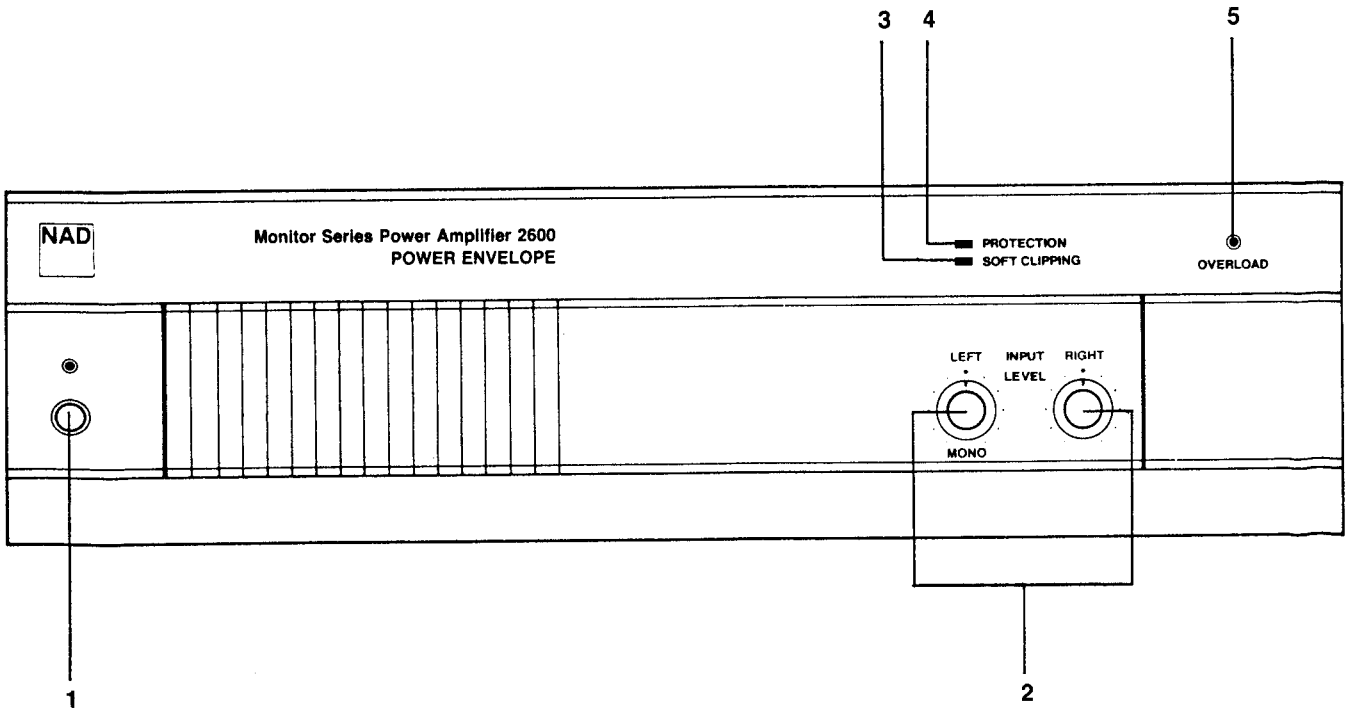
CAUTION
RISK OF ELECTRIC SHOCK DO NOT OPEN

CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL




## FRONT PANEL

1. Power.
2. Input Level.
3. Soft Clipping Indicator.
4. Protection Indicator.
5. Overload Indicator.



# SPECIFICATIONS

## FEATURES

A. Control and Switch
   1. AC Power switch : On-Off ..... Push type
   2. Bridging switch : Normal-Bridging ... Slide type with Locking plate
   3. Soft Clipping : On-Off ..... Slide type
   4. Input Level control : Min.-Max. ..... Rotary type
   5. Speaker Load switch : 4Ω–8Ω ..... Slide type

B.
   1. Speaker terminal : 4P army type binding post for banana plug
   2. AC Line Cord
   [A]-Version for U.S.A. : UL-1 type
   [A1]-Version for Canada : UL-1 type
   [B]-Version for U.K. : CEE2 type
   [B1]-Version for Australia, N.Z. : S type
   [C]-Version for Scandinavia : CEE2 type
   [C1]-Version for W.Germany : CEE2 type
   3. Normal input : RCA type pin jack (2P)
   4. Lab input : RCA type pin jack (2P)

C. Display Indicators
   Power : Green
   Soft clipping : Yellow
   Overload : Red
   Protection : Red

D. Output Load
   Speaker Output : 8Ω/4Ω

E. Maximum Power Consumption : 970VA

F. AC Power Supply
   [A]-Version for U.S.A. : 120V 60Hz
   [A1]-Version for Canada : 120V 60Hz
   [B]-Version for U.K. : 240V 50Hz (110V/120V/220V/240V switchable)
   [B1]-Version for Australia, N.Z. : 240V 50Hz (110V/120V/220V/240V switchable)
   [C]-Version for Scandinavia : 220V 50Hz (110V/120V/220V/240V switchable)
   [C1]-Version for W.Germany : 220V 50Hz (110V/120V/220V/240V switchable)

G. Netweight and Dimension (Approx.)
   1. Netweight : 13Kg
   2. Dimensions (W×H×D) : 435×128.5×392 (mm)

## ELECTRICAL SPECIFICATION

| | Nominal | Limit | Unit |
|---|---|---|---|
| 1. Sensitivity | 1.0 | ±1.5dB | V |
| Input : 1000Hz | | | |
| Output : 150W, 8Ω | | | |
| 2. Channel Difference | | less than 1 | dB |
| 3. Output Power | | | |
| Input : LAB in | | | |
| Output : 0.05% THD | | | |
| 20–20000Hz continuous both ch. driven | | | |
| 8Ω | | more than 150 | W |
| 4Ω | | more than 150 | W |
| 4. Clipping Power | | | |
| Input : LAB in | | | |
| Output : 1% THD | | | |
| 1000Hz continuous both ch. driven | | | |
| 8Ω load | 200 | 180 | W |
| 4Ω load | 200 | 180 | W |
| 5. Dynamic Power | | | |
| Input : LAB in | | | |
| Output : Clipping point | | | |
| 1000Hz 20ms IHF dynamic wave both ch. driven | | | |
| 8Ω | 400 | 380 | W |
| 4Ω | 500 | 450 | W |
| 6. IM Distortion | | less than 0.05 | % |
| Input : LAB in 60Hz : 7000Hz = 4 : 1 | | | |
| Output : from 250mW–150W | | | |
| both ch. driven 8Ω load | | | |
| 7. THD | | less than 0.05 | % |
| Input : LAB in | | | |
| Output : 20–20000Hz from 250mW–150W | | | |
| both ch. driven 8Ω load | | | |
| 8. Frequency response (LAB in) | | ±0.5dB | dB |
| Input : LAB in | | | |
| Output : 15W, 8Ω | | | |
| 20–20000Hz | | | |

| | Nominal | Limit | Unit |
|---|---|---|---|
| 9. Frequency response (Nor in) | | | |
| Input : Nor in | | | |
| Output : 15W, 8Ω | | | |
| 600Ω/both ch. driven 12dB/Octave | | | |
| at 14Hz | –3 | –3±1.5 | dB |
| at 40kHz | –3 | –3±1.5 | dB |
| 10. Damping Factor | 120 | 100 | — |
| at 50Hz 8Ω load at 100W | | | |
| 11. Slew Rate | 25 | 23 | V/μsec |
| 12. Signal to Noise Ratio | | more than 110 | dB |
| Input shorted | | | |
| Ref. Rated power | | | |
| (VR Max. IHF-A weighted) | | | |
| 13. Residual Noise (VR Min.) | | | |
| unweighted | | less than 0.5 | mV |
| weighted | | less than 0.1 | mV |
| 14. Input Impedance | | more than 20 | kΩ |
| 15. Cross Talk | | | |
| Between the channels of stereo equipment | | | |
| Input : LAB in 〈shorted〉 8Ω load | | | |
| 1000Hz | 80 | 76 | dB |
| 20000Hz | 63 | 56 | dB |
| 16. Soft Clip Level | | | |
| (when switched in just at onset of clipping) | | | |
| 4Ω | –0.5 | –0.5±0.4 | dB |
| 8Ω | –0.5 | –0.5±0.4 | dB |
| 17. Peak short term 〈1 msec〉 | | | |
| O/P current | 50 | 45 | A |
| 18. THD (No load) | | less than 0.1 | % |
| Input : LAB in | | | |
| Output : 20kHz 60V-rms | | | |

* Unless otherwise specified procedure shall be made in accordance with IHF-A202.

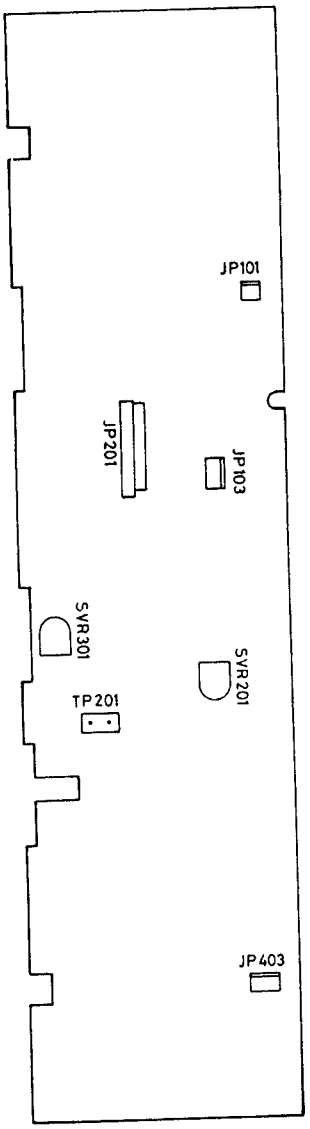
# ALIGNMENT PROCEDURES

## Condition

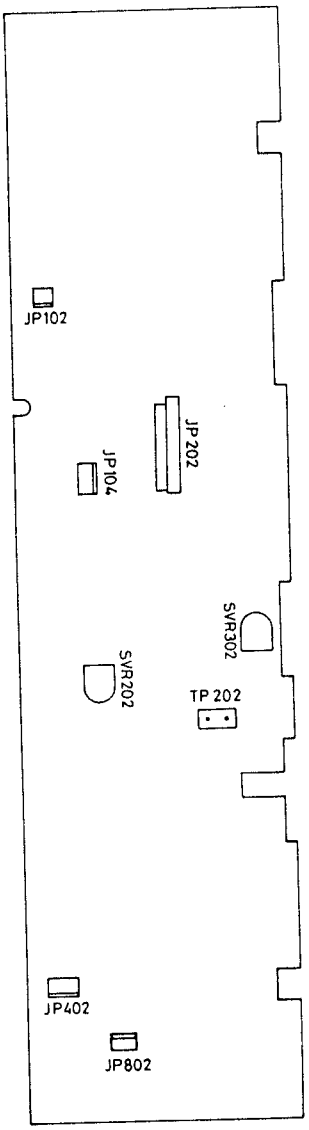
Preheat . . . . . more than 15 minutes
Speaker load . . . . . 8 ohms (dummy or speaker)
Input . . . . . No signal

| Step | Output Indication / Connection | Adjustment | Adjust for |
|---|---|---|---|
| | CENTER DC VOLTAGE | | |
| 1 | DC digital voltmeter / Speaker terminals | SVR201 (L ch)<br>SVR202 (R ch) | 0±5 mV |
| | IDLING | | |
| 2 | DC digital voltmeter / TP201/TP202 (L/R) | SVR301 (L ch)<br>SVR302 (R ch) | 7.5±0.5mV |

**MAL-P.C. Board**

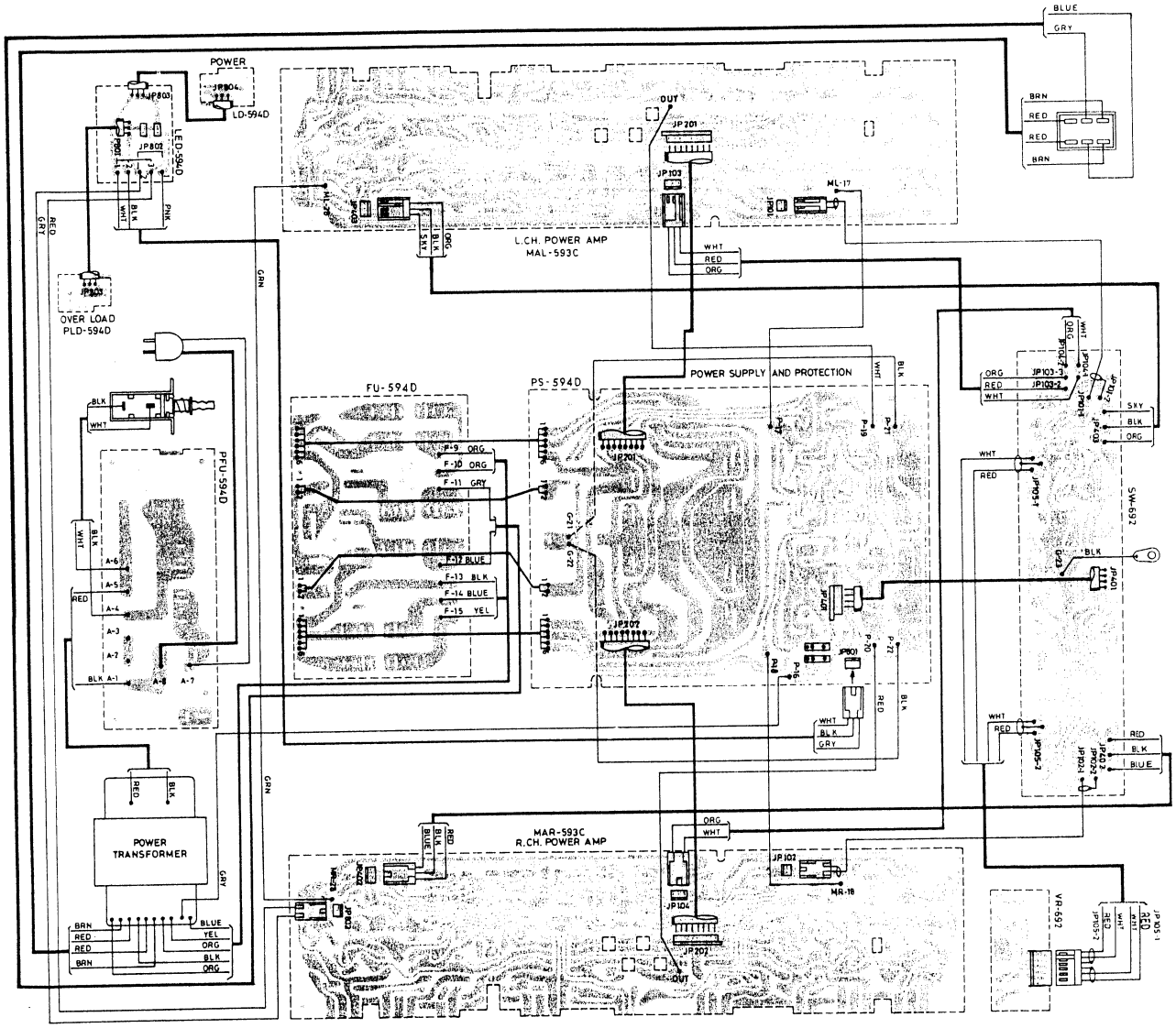



**MAR-P.C. Board**

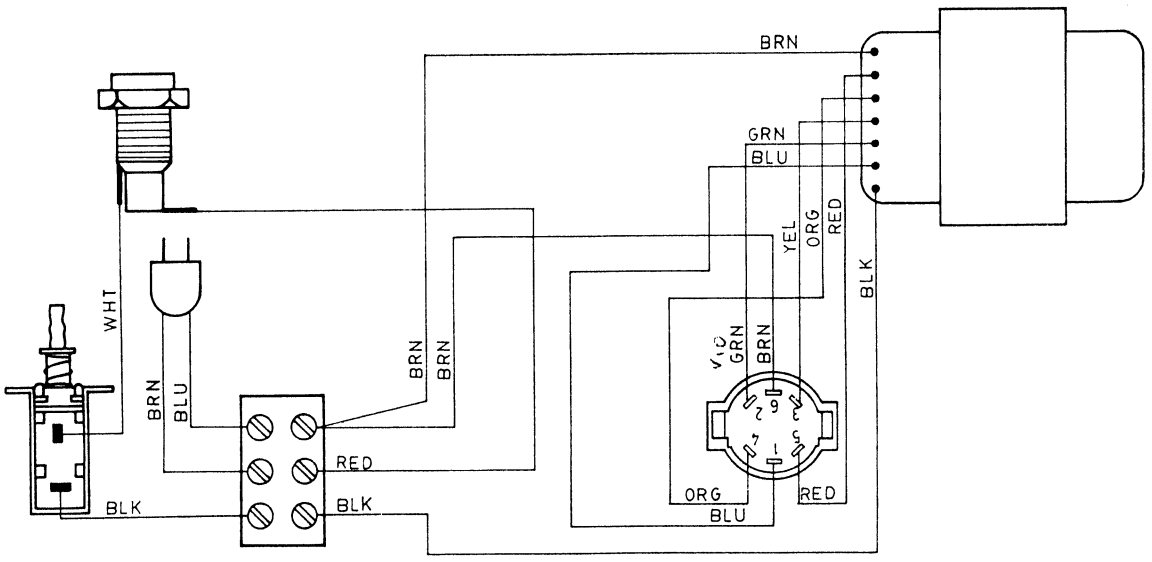


# WIRING DIAGRAM (Component side)

## [A, A$_1$]-Version for U.S.A., Canada

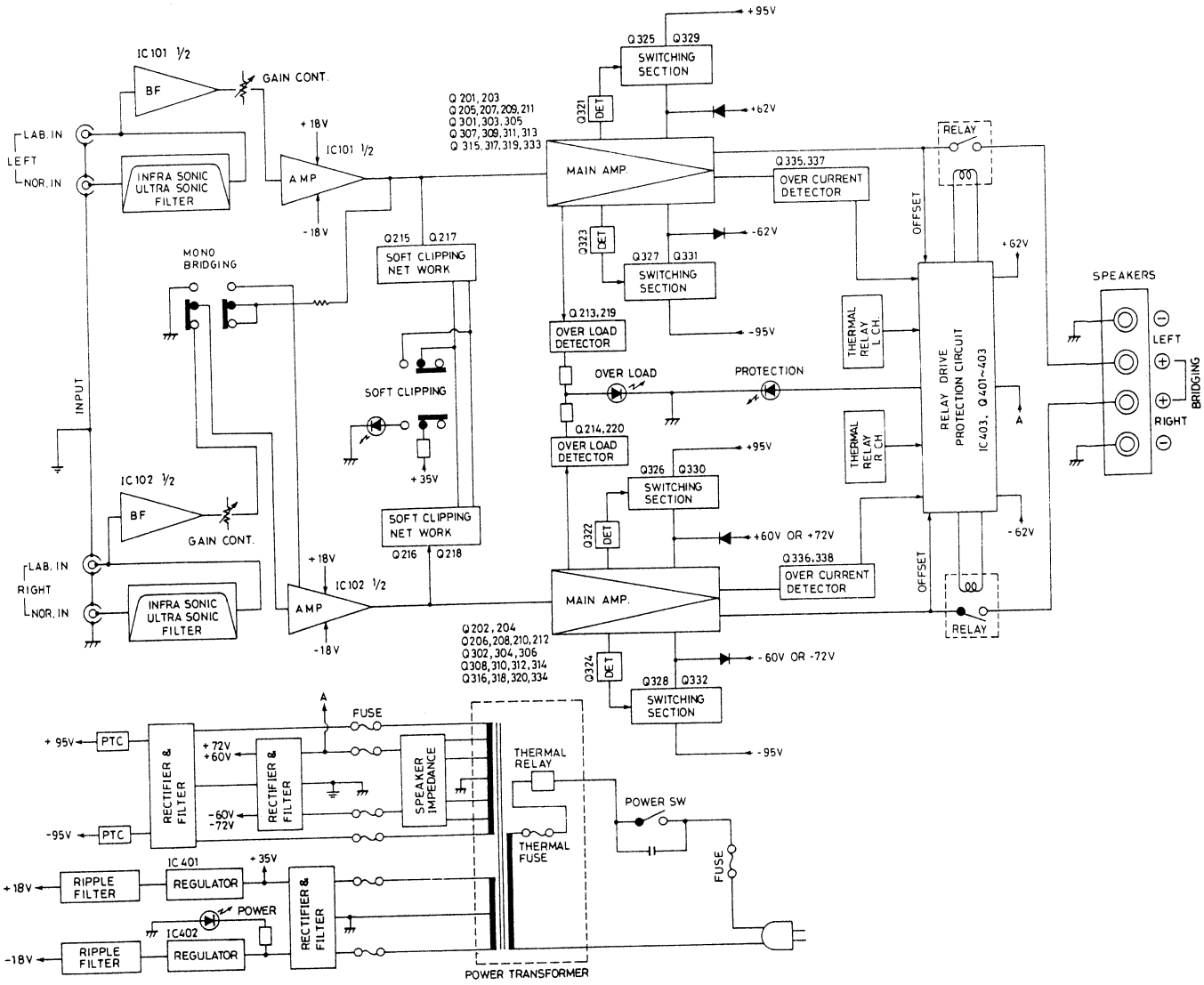



## [B, B$_1$, C, C$_1$]-Version for U.K., Australia / N.Z., Scandinavia, W.Germany



# BLOCK DIAGRAM

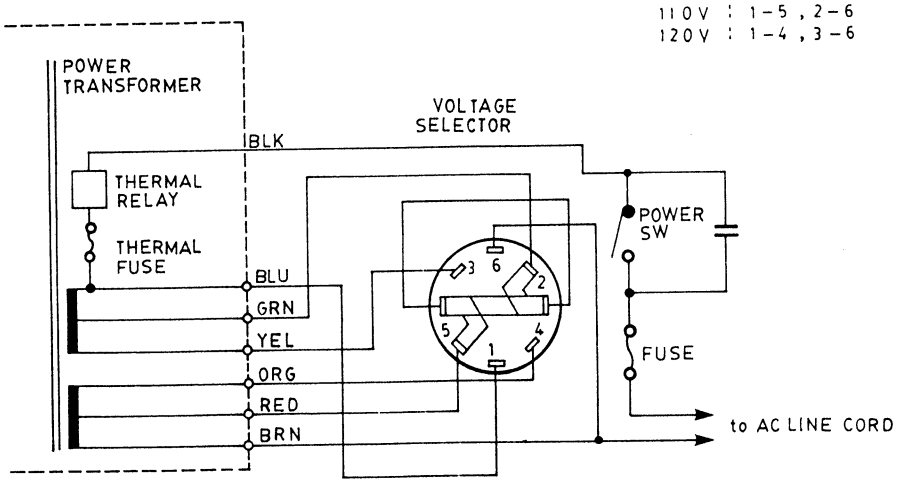
## [A, A1]-Version for U.S.A., Canada




## [B, B1, C, C1]-Version for U.K., Australia / N.Z., Scandinavia, W.Germany

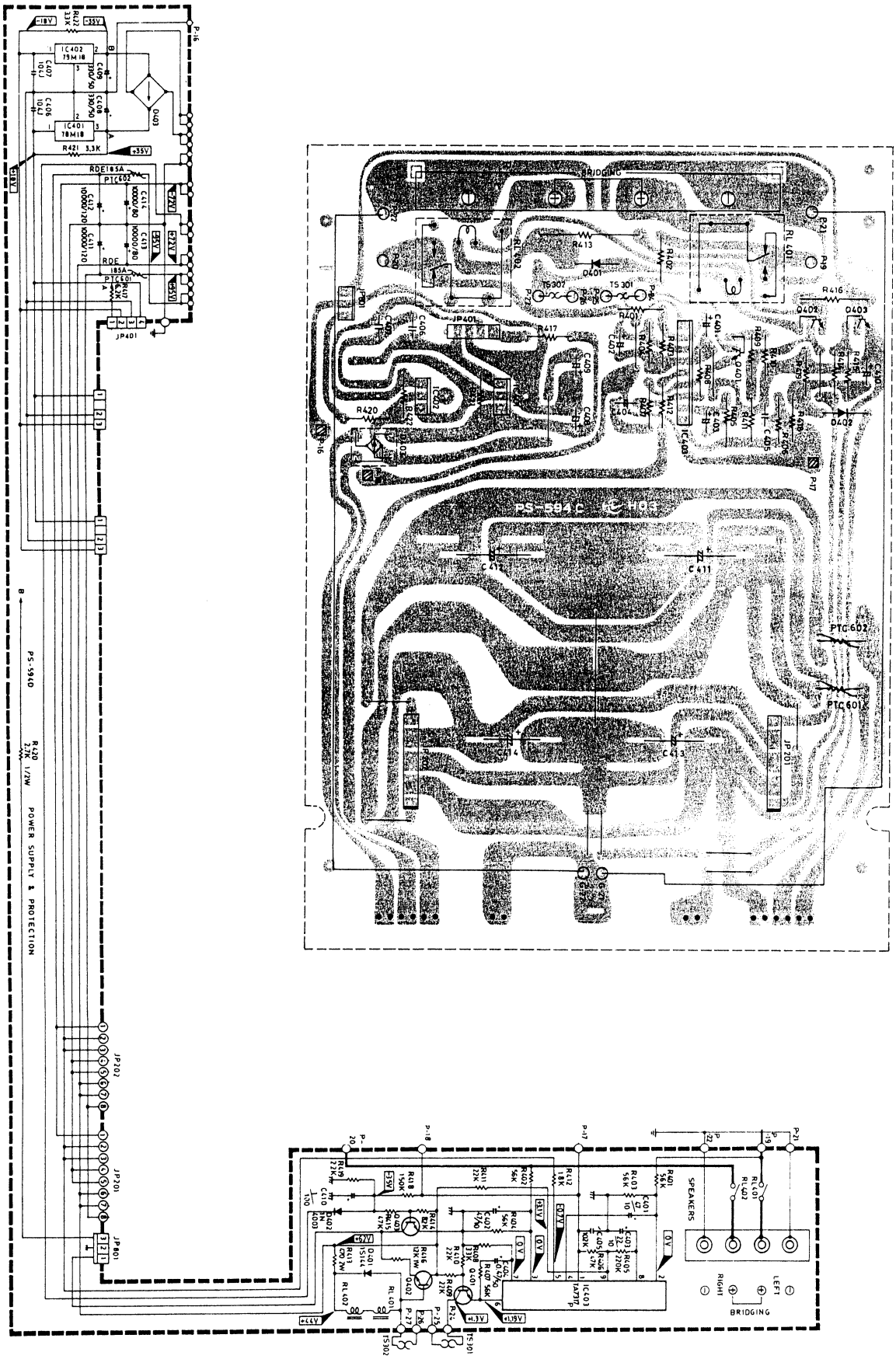
VOLTAGE SELECTOR POSITION

| | |
|---|---|
| 220V | 2-5 |
| 240V | 3-4 |
| 110V | 1-5, 2-6 |
| 120V | 1-4, 3-6 |



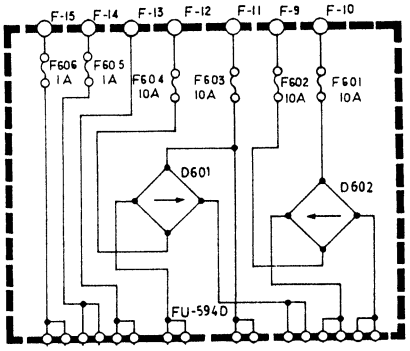
# SCHEMATIC AND PCB LAYOUT (Foil side)

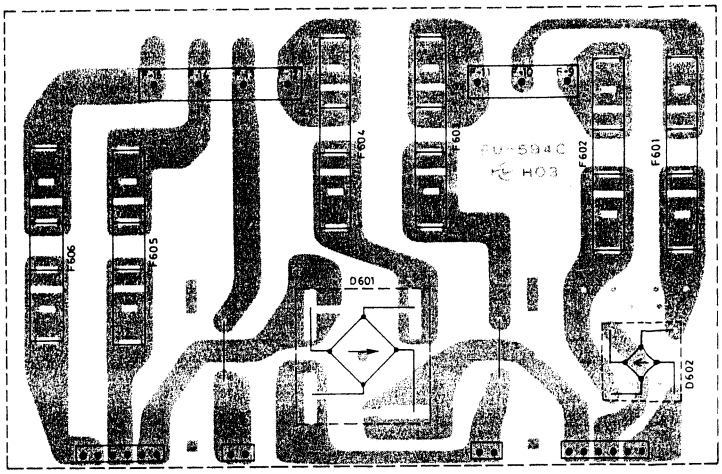
## Power Supply/Protect P.C.B Ass'y



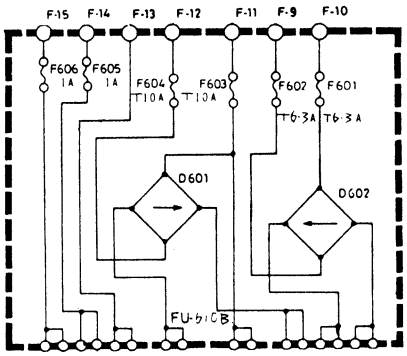
## Fuse P.C.B Ass'y

### [A, A1]-Version for U.S.A., Canada



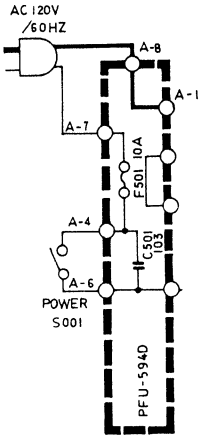



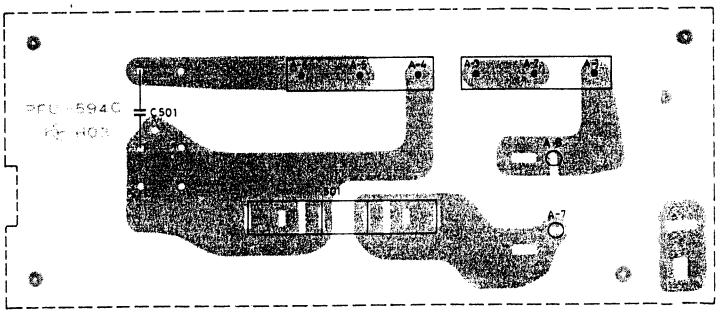

### [B, B1, C, C1]-Version for U.K., Australia / N.Z., Scandinavia, W.Germany



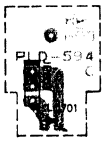

## Primary Fuse P.C.B Ass'y

### [A, A1]-Version for U.S.A., Canada only

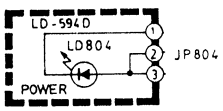


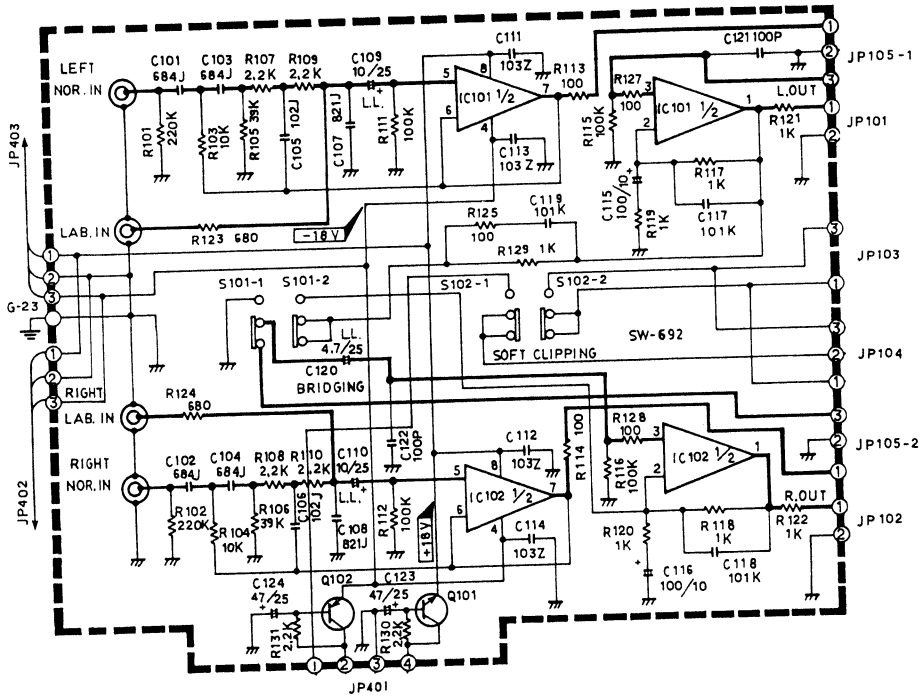

## Indicator P.C.B Ass'y

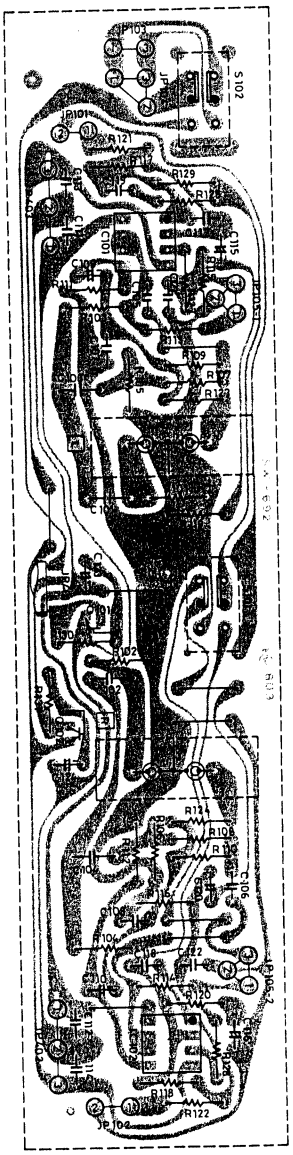


## Power Indicator P.C.B Ass'y

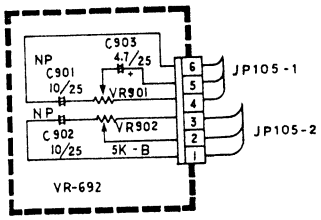


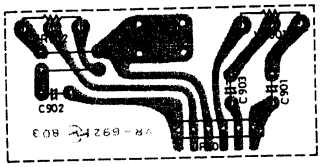
## Input P.C.B Ass'y



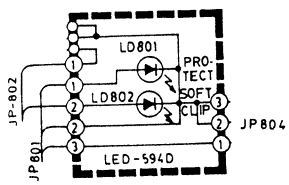



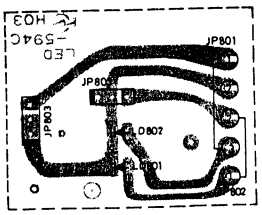
## Input Volume P.C.B Ass'y



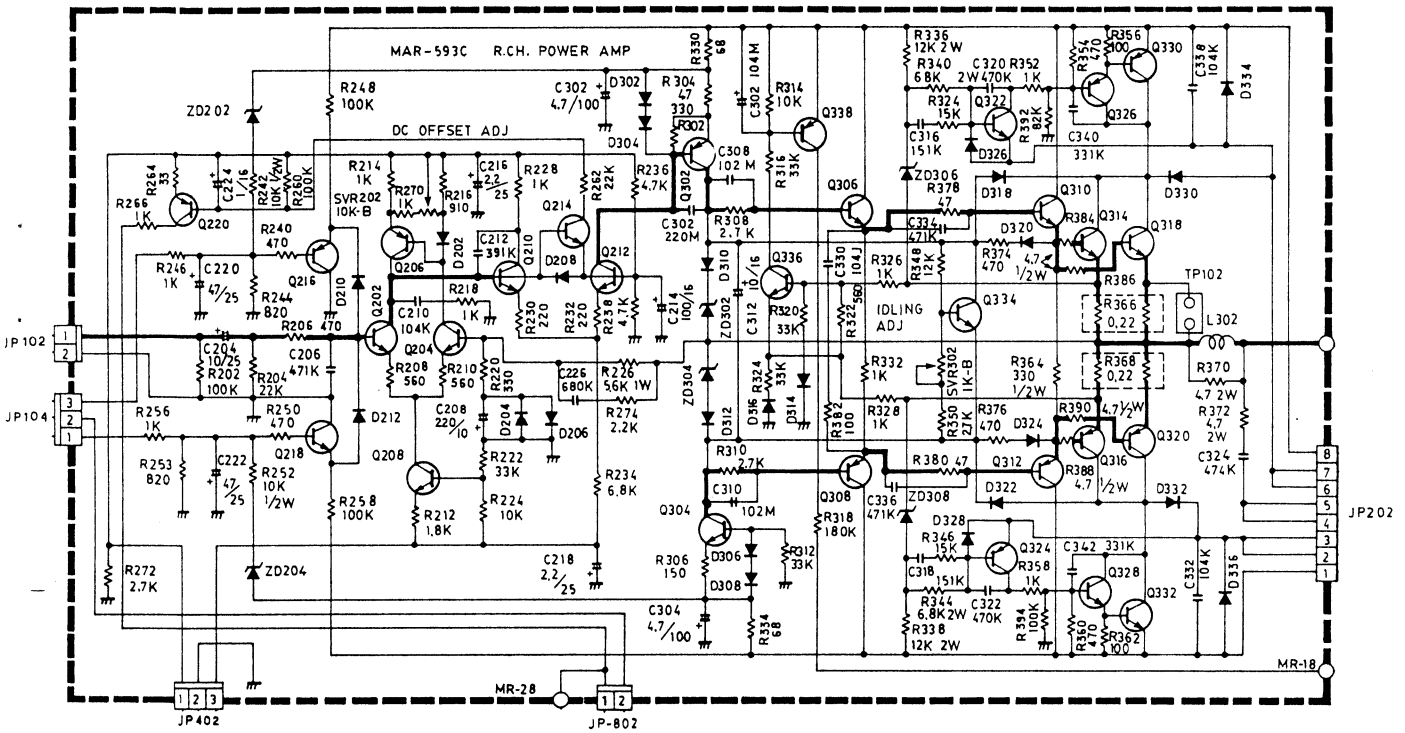




## Indicators P.C.B Ass'y

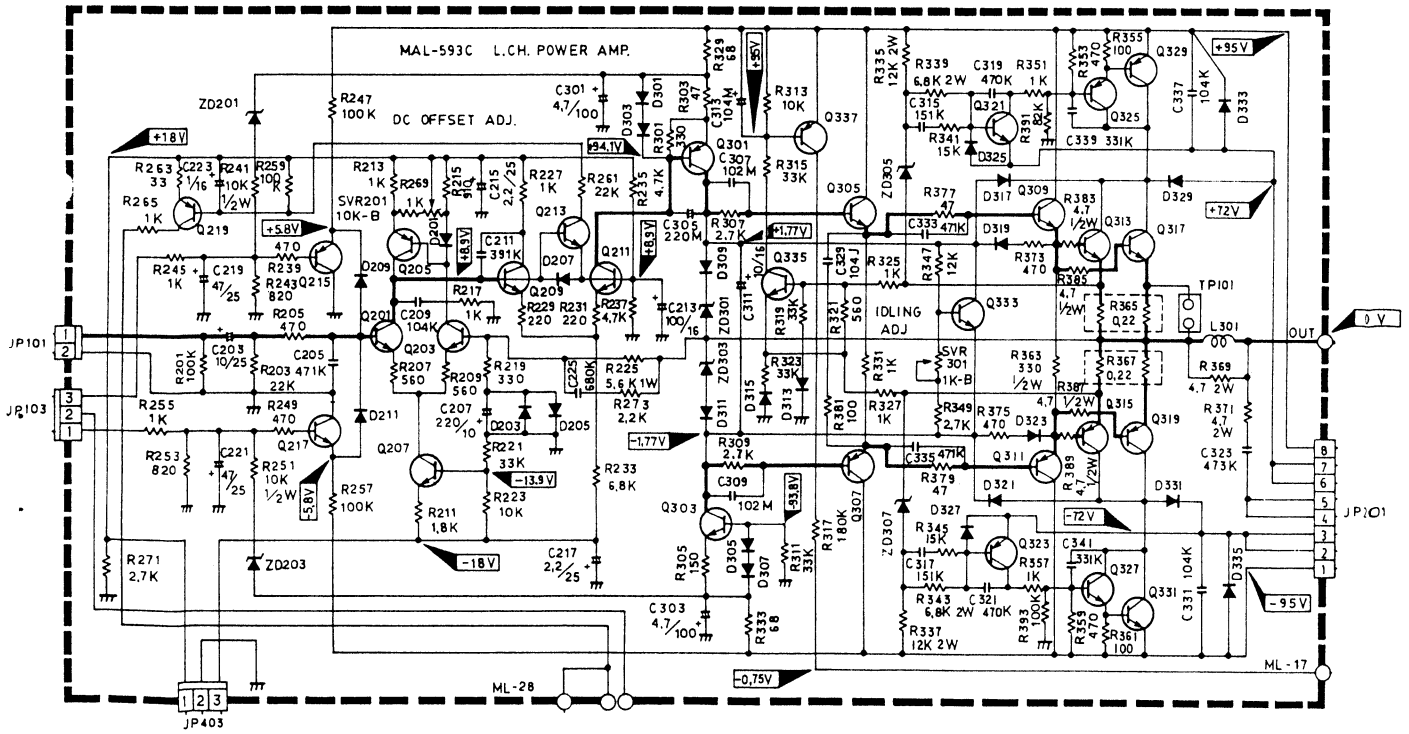


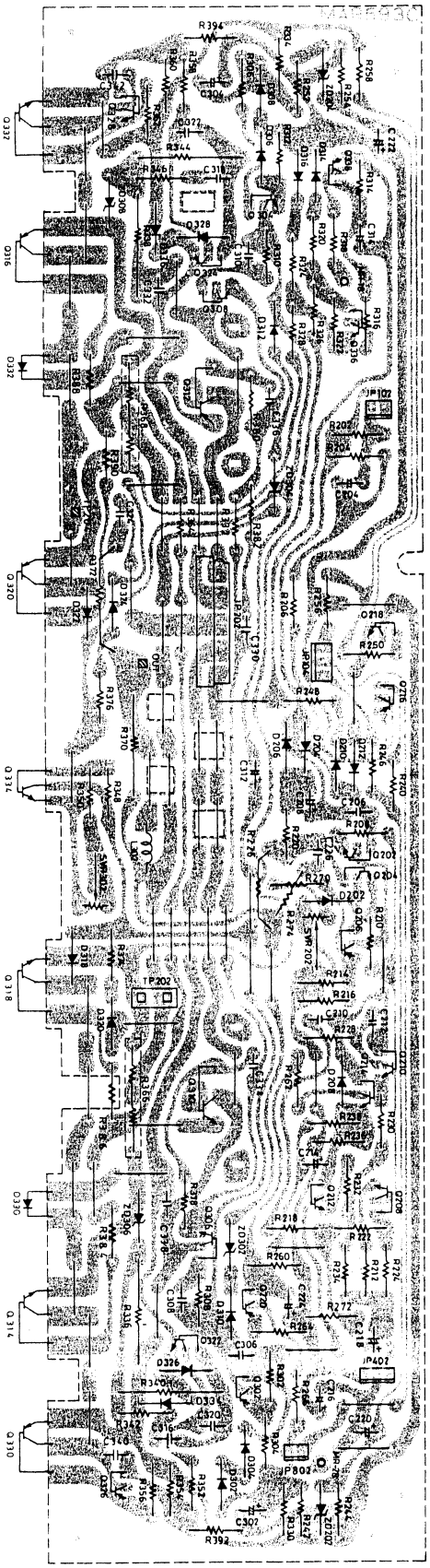
## R ch Power Amp Circuit



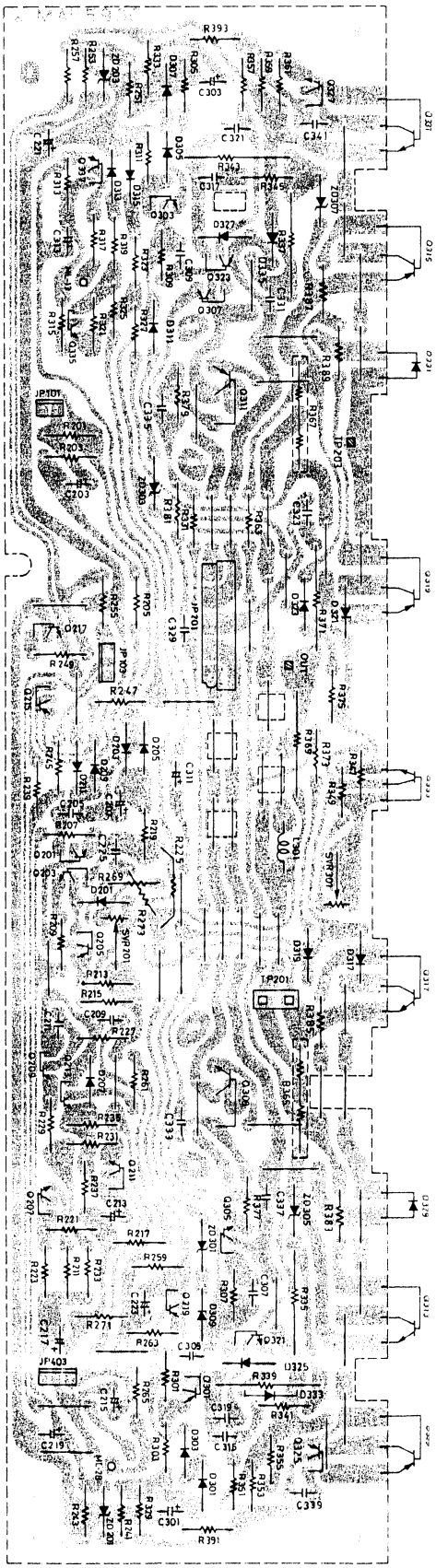

## L ch Power Amp Circuit



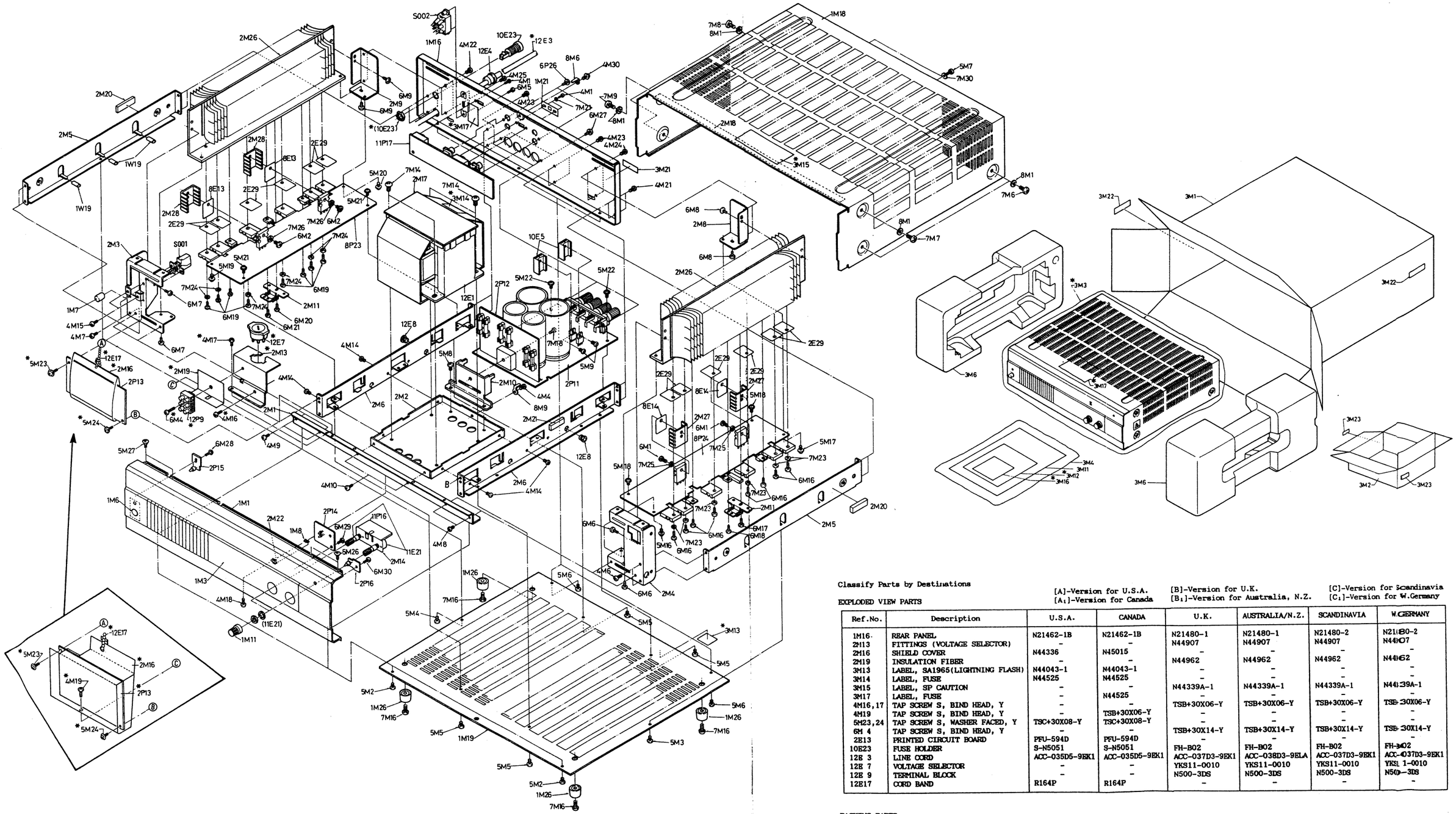
## R ch Power Amp P.C.B Ass'y



## L ch Power Amp P.C.B Ass'y



# EXPLODED VIEW AND PARTS LIST




Classify Parts by Destinations

[A]-Version for U.S.A. [B]-Version for U.K. [C]-Version for Scandinavia
[A₁]-Version for Canada [B₁]-Version for Australia, N.Z. [C₁]-Version for W.Germany

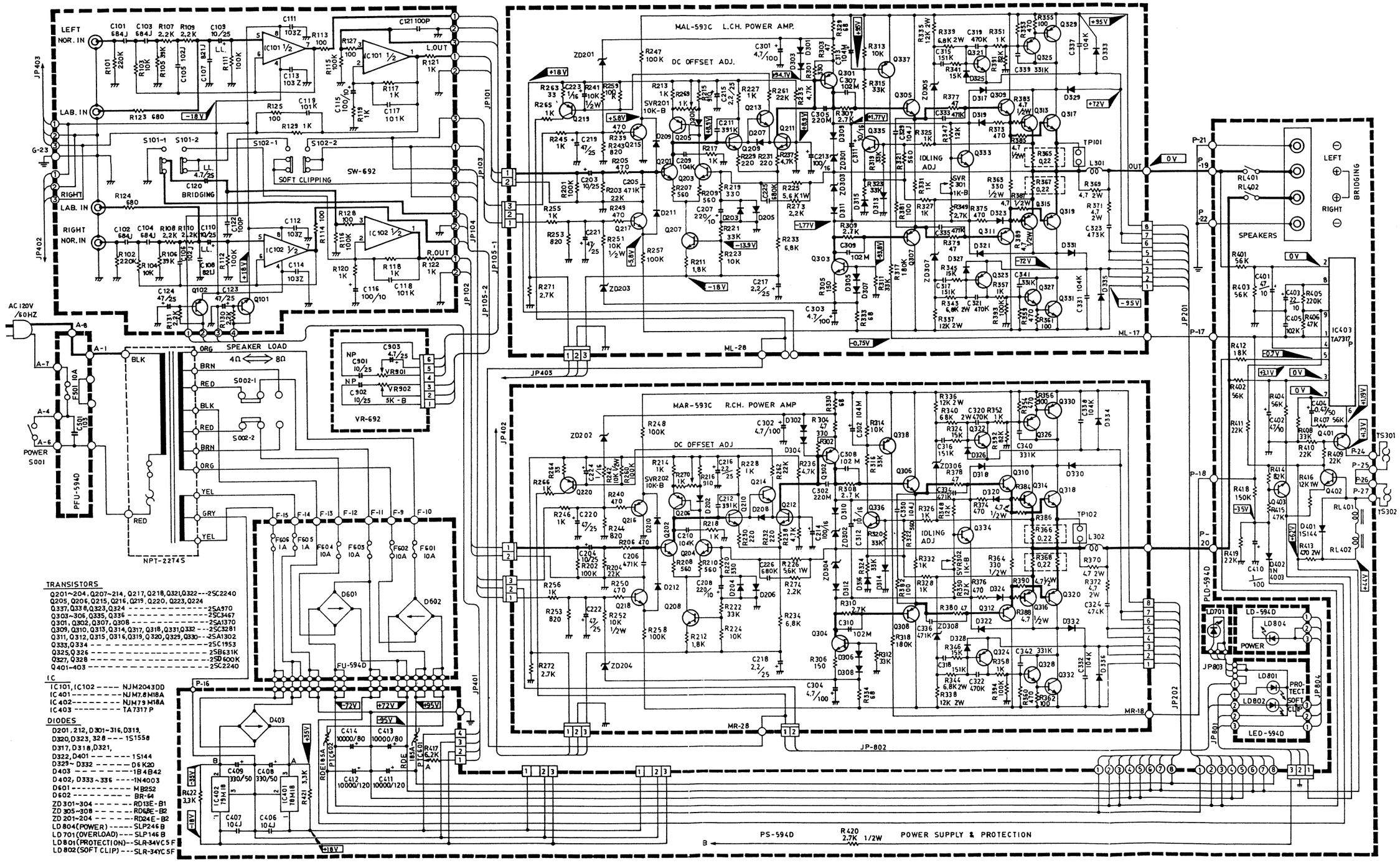
EXPLODED VIEW PARTS

| Ref.No. | Description | U.S.A. | CANADA | U.K. | AUSTRALIA/N.Z. | SCANDINAVIA | W.GERMANY |
|---|---|---|---|---|---|---|---|
| 1M16 | REAR PANEL | N21462-1B | N21462-1B | N21480-1 | N21480-1 | N21480-2 | N21480-2 |
| 2M13 | FITTINGS (VOLTAGE SELECTOR) | - | - | N44907 | N44907 | N44907 | N44907 |
| 2M16 | SHIELD COVER | N44336 | N45015 | - | - | - | - |
| 2M19 | INSULATION FIBER | - | - | N44962 | N44962 | N44962 | N44962 |
| 3M13 | LABEL, SA1965(LIGHTNING FLASH) | N44043-1 | N44043-1 | - | - | - | - |
| 3M14 | LABEL, FUSE | N44525 | N44525 | - | - | - | - |
| 3M15 | LABEL, SP CAUTION | - | - | N44339A-1 | N44339A-1 | N44339A-1 | N44339A-1 |
| 3M17 | LABEL, FUSE | - | N44525 | - | - | - | - |
| 4M16,17 | TAP SCREW S, BIND HEAD, Y | - | - | TSB+30X06-Y | TSB+30X06-Y | TSB+30X06-Y | TSB+30X06-Y |
| 4M19 | TAP SCREW S, BIND HEAD, Y | - | TSB+30X06-Y | - | - | - | - |
| 5M23,24 | TAP SCREW S, WASHER FACED, Y | TSC+30X08-Y | TSC+30X08-Y | - | - | - | - |
| 6M 4 | TAP SCREW S, BIND HEAD, Y | - | - | TSB+30X14-Y | TSB+30X14-Y | TSB+30X14-Y | TSB+30X14-Y |
| 2E13 | PRINTED CIRCUIT BOARD | PFU-594D | PFU-594D | - | - | - | - |
| 10E23 | FUSE HOLDER | S-N5051 | S-N5051 | FH-B02 | FH-B02 | FH-B02 | FH-B02 |
| 12E 3 | LINE CORD | ACC-035D5-9EK1 | ACC-035D5-9EK1 | ACC-037D3-9EK1 | ACC-038D3-9ELA | ACC-037D3-9EK1 | ACC-037D3-9EK1 |
| 12E 7 | VOLTAGE SELECTOR | - | - | YKS11-0010 | YKS11-0010 | YKS11-0010 | YKS11-0010 |
| 12E 9 | TERMINAL BLOCK | - | - | N500-3DS | N500-3DS | N500-3DS | N500-3DS |
| 12E17 | CORD BAND | R164P | R164P | - | - | - | - |

PACKING PARTS

| Ref.No. | Description | U.S.A. | CANADA | U.K. | AUSTRALIA/N.Z. | SCANDINAVIA | W.GERMANY |
|---|---|---|---|---|---|---|---|
| 3M 3 | POLYETHYLENE BAG | N45011 | N45011 | N45012 | N45011 | N45011 | N45011 |
| 3M12 | CAUTION SHEET, POLARIZED PLUG | N44687 | N44687 | - | - | - | - |
| 3M16 | CARD, WARRANTY REGISTRATION | NAD-WC2 | - | - | - | - | - |
| 3M17 | STICKER, WARNING | - | - | N41994 | - | - | - |

## SCHEMATIC DIAGRAM




TRANSISTORS

Q201~204, Q207~214, Q217, Q218, Q321, Q322 --- 2SC2240
Q205, Q206, Q215, Q216, Q219, Q220, Q223, Q224
Q337, Q338, Q323, Q324 ---------- 2SA970
Q303~306, Q335, Q336 ---------- 2SC3467
Q301, Q302, Q307, Q308 ---------- 2SA1370
Q309, Q310, Q315, Q314, Q317, Q318, Q331, Q332 --- 2SC3281
Q311, Q312, Q315, Q316, Q319, Q320, Q329, Q330 --- 2SA1302
Q333, Q334 ---------- 2SC1953
Q325, Q326 ---------- 2SB631K
Q327, Q328 ---------- 2SD600K
Q401~403 ---------- 2SC2240

IC

IC101, IC102 ---- NJM2043DD
IC401 ---------- NJM7.8M18A
IC402 ---------- NJM79M18A
IC403 ---------- TA7317P

DIODES

D201, 212, D301~316, D319,
D320, D323, 328 --- 1S1558
D317, D318, D321,
D322, D401 ---------- 1S144
D329~D332 ---------- D6K20
D403 ---------- 1B4B42
D402, D333~336 --- 1N4003
D601 ---------- MB252
D602 ---------- BR-64
ZD301~304 ---------- RD13E-B1
ZD305~308 ---------- RD6.8E-B2
ZD201~204 ---------- RD24E-B2
LD804(POWER) ----- SLP246B
LD701(OVERLOAD) --- SLP146B
LD801(PROTECTION) --- SLR-34VC5F
LD802(SOFT CLIP) --- SLR-34YC5F

CAUTION: THOSE FUSES WITH SYMBOL MARKS 250V 1A and 250V 10A
ARE FAST BLOW TYPE. REPLACE WITH SAME TYPE 10A 250V(OR 1A 250V)FUSE.
ATTENTION : LES FUSIBLES MARQUES 250V 1A ET 250V 10A SONT DE TYPE A
FUSION RAPIDE. UTILISER UN FUSIBLE DE RECHANGE DE MEME TYPE DE
10A 250V(OU 1A 250V).

| DRAWING NO. | MODEL NO. |
|---|---|
| CD-370 | 2600A |

# ELECTRICAL PARTS LIST

L CH POWER AMP PCB ASS'Y

| REF. NO. | Q'TY | PART NO. | DESCRIPTION |
|---|---|---|---|
| **P.C.BOARD** | | | |
| 8E23 | 1 | MAL-593C | PRINTED CIRCUIT BOARD |
| **SEMICONDUCTORS** | | | |
| D201,203, 205,207, 209,211, 301,303, 305,307, 309,311, 313,315 | 14 | 1S1588 | DIODE |
| D317 | 1 | 1SS144 | DIODE |
| D319 | 1 | 1S1588 | DIODE |
| D321 | 1 | 1SS144 | DIODE |
| D323,325, 327 | 3 | 1S1588 | DIODE |
| D333,335 | 2 | 1N4003 | DIODE |
| Q201,203 | 2 | 2SC2240-BL | TRANSISTOR |
| Q205 | 1 | 2SA970-BL | TRANSISTOR |
| Q207,209, 211,213 | 4 | 2SC2240-BL | TRANSISTOR |
| Q215 | 1 | 2SA970-BL | TRANSISTOR |
| Q217 | 1 | 2SC2240-BL | TRANSISTOR |
| Q219 | 1 | 2SA970-BL | TRANSISTOR |
| Q301 | 1 | 2SA1370-E,F | TRANSISTOR |
| Q303,305 | 2 | 2SC3467-E,F | TRANSISTOR |
| Q307 | 1 | 2SA1370-E,F | TRANSISTOR |
| Q309 | 1 | 2SC3281-R,O | TRANSISTOR |
| Q311 | 1 | 2SA1302-R,O | TRANSISTOR |
| Q321 | 1 | 2SC2240-BL | TRANSISTOR |
| Q323 | 1 | 2SA970-BL | TRANSISTOR |
| Q325 | 1 | 2SB631K-E,F | TRANSISTOR |
| Q327 | 1 | 2SD600K-E,F | TRANSISTOR |
| Q335 | 1 | 2SC3467-E,F | TRANSISTOR |
| Q337 | 1 | 2SA970-BL | TRANSISTOR |
| ZD201,203 | 2 | RD24E-B2 | ZENER DIODE,1/2W,24V |
| ZD301,303 | 2 | RD13E-B1 | DIODE |
| ZD305,307 | 2 | RD6.8E-B2 | ZENER DIODE,1/2W,6.8V |
| **CAPACITORS** | | | |
| C203 | 1 | LL-25TW100M | LOW LEAK. ELECTROLYTIC CAP. |
| C205 | 1 | HE90SJSL471K | CERAMIC CAPACITOR |
| C207 | 1 | NS-10TW221M | ELECTROLYTIC CAPACITOR |
| C209 | 1 | ECQV1H104JZ | METALLIZED FILM CAPACITOR |
| C211 | 1 | HE90SJSL391K | CERAMIC CAPACITOR |
| C213 | 1 | NS-16TW101M | ELECTROLYTIC CAPACITOR |
| C215,217 | 2 | NS-50TW2R2M | ELECTROLYTIC CAPACITOR |
| C219,221 | 2 | NS-25TW470M | ELECTROLYTIC CAPACITOR |
| C223 | 1 | NS-50TW1R0M | ELECTROLYTIC CAPACITOR |
| C225 | 1 | HM60SJSL680K | CERAMIC CAPACITOR |
| C301,303 | 2 | NS100TW4R7M | ELECTROLYTIC CAPACITOR |
| C305 | 1 | HM60SJSH220K | CERAMIC CAPACITOR |
| C307,309 | 2 | HE40SJYD102M | CERAMIC CAPACITOR |
| C311 | 1 | NS-16TW100M | ELECTROLYTIC CAPACITOR |
| C313 | 1 | NS-50TWR10M | ELECTROLYTIC CAPACITOR |
| C315,317 | 2 | HE60SJSL151K | CERAMIC CAPACITOR |
| C319,321 | 2 | HE40SJSL470K | CERAMIC CAPACITOR |
| C323 | 1 | MY100VS473K | MYLAR CAPACITOR |
| C329,331 | 2 | ECQV1H104JZ | METALLIZED FILM CAPACITOR |
| C333,335 | 2 | HE90SJSL471K | CERAMIC CAPACITOR |
| C337 | 1 | ECQV1H104JZ | METALLIZED FILM CAPACITOR |
| C339,341 | 2 | HE80SJSL331K | CERAMIC CAPACITOR |
| **RESISTORS** | | | |
| R201 | 1 | KA25ST104J | CARBON RESISTOR |
| R203 | 1 | KA25ST223J | CARBON RESISTOR |
| R205 | 1 | KA25ST471J | CARBON RESISTOR |
| R207,209 | 2 | KA25ST561J | CARBON RESISTOR |
| R211 | 1 | KA25ST182J | CARBON RESISTOR |
| R213 | 1 | KA25ST102J | CARBON RESISTOR |
| R215 | 1 | KA25ST911J | CARBON RESISTOR |
| R217 | 1 | KA25ST102J | CARBON RESISTOR |
| R219 | 1 | KA25ST331J | CARBON RESISTOR |
| R221 | 1 | KA25ST333J | CARBON RESISTOR |
| R223 | 1 | KA25ST103J | CARBON RESISTOR |
| R225 | 1 | SA-1WT562J-LP | METAL OXIDE RESISTOR |
| R227 | 1 | KA25ST102J | CARBON RESISTOR |
| R229,231 | 2 | KA25ST221J | CARBON RESISTOR |
| R233 | 1 | KA25ST682J | CARBON RESISTOR |
| R235,237 | 2 | KA25ST472J | CARBON RESISTOR |
| R239 | 1 | KA25ST471J | CARBON RESISTOR |
| R241 | 1 | FR50ST103J-LP | FLAME PROOF RESISTOR |
| R243 | 1 | KA25ST821J | CARBON RESISTOR |
| R245 | 1 | KA25ST102J | CARBON RESISTOR |
| R247 | 1 | KA25ST104J | CARBON RESISTOR |
| R249 | 1 | KA25ST471J | CARBON RESISTOR |
| R251 | 1 | FR50ST103J-LP | FLAME PROOF RESISTOR |
| R253 | 1 | KA25ST821J | CARBON RESISTOR |
| R255 | 1 | KA25ST102J | CARBON RESISTOR |
| R257,259 | 2 | KA25ST104J | CARBON RESISTOR |
| R261 | 1 | KA25ST223J | CARBON RESISTOR |
| R263 | 1 | FR25ST330J-LP | FLAME PROOF RESISTOR |
| R265,269 | 2 | KA25ST102J | CARBON RESISTOR |
| R271 | 1 | KA25ST272J | CARBON RESISTOR |
| R273 | 1 | FR25ST222J-LP | FLAME PROOF RESISTOR |
| R301 | 1 | FR25ST331J-LP | FLAME PROOF RESISTOR |
| R303 | 1 | FR25ST470J-LP | FLAME PROOF RESISTOR |
| R305 | 1 | FR25ST151J-LP | FLAME PROOF RESISTOR |
| R307 | 1 | FR25ST272J-LP | FLAME PROOF RESISTOR |
| R309 | 1 | KA25ST272J | CARBON RESISTOR |
| R311 | 1 | KA25ST333J | CARBON RESISTOR |
| R313 | 1 | KA25ST103J | CARBON RESISTOR |
| R315 | 1 | KA25ST333J | CARBON RESISTOR |
| R317 | 1 | KA25ST184J | CARBON RESISTOR |
| R319 | 1 | KA25ST333J | CARBON RESISTOR |
| R321 | 1 | KA25ST561J | CARBON RESISTOR |
| R323 | 1 | KA25ST333J | CARBON RESISTOR |
| R325,327 | 2 | FR25ST102J-LP | FLAME PROOF RESISTOR |
| R329 | 1 | FR25ST680J-LP | FLAME PROOF RESISTOR |
| R331 | 1 | FR25ST102J-LP | FLAME PROOF RESISTOR |
| R333 | 1 | FR25ST680J-LP | FLAME PROOF RESISTOR |
| R335,337 | 2 | SA-2WT123J-LP | METAL OXIDE RESISTOR |
| R339 | 1 | SA-2WT682J-LP | METAL OXIDE RESISTOR |
| R341 | 1 | KA25ST153J | CARBON RESISTOR |
| R343 | 1 | SA-2WT682J-LP | METAL OXIDE RESISTOR |
| R345 | 1 | KA25ST153J | CARBON RESISTOR |
| R347 | 1 | KA25ST123J | CARBON RESISTOR |
| R349 | 1 | KA25ST272J | CARBON RESISTOR |
| R351 | 1 | KA25ST102J | CARBON RESISTOR |
| R353 | 1 | FR25ST471J-LP | FLAME PROOF RESISTOR |
| R355 | 1 | FR25ST101J-LP | FLAME PROOF RESISTOR |
| R357 | 1 | KA25ST102J | CARBON RESISTOR |
| R359 | 1 | FR25ST471J-LP | FLAME PROOF RESISTOR |
| R361 | 1 | FR25ST101J-LP | FLAME PROOF RESISTOR |
| R363 | 1 | FR50ST331J-LP | FLAME PROOF RESISTOR |
| R365,367 | 2 | MPC722R22KX2LF | CEMENT RESISTOR |
| R369,371 | 2 | SA-2WT4R7J-LP | METAL OXIDE RESISTOR |
| R373,375 | 2 | FR25ST471J-LP | FLAME PROOF RESISTOR |
| R377,379 | 2 | FR25ST470J-LP | FLAME PROOF RESISTOR |
| R381 | 1 | KA25ST101J | CARBON RESISTOR |
| R383,385, 387,389 | 4 | FR50ST4R7J-LP | FLAME PROOF RESISTOR |
| R391 | 1 | KA25ST823J | CARBON RESISTOR |
| R393 | 1 | KA25ST104J | CARBON RESISTOR |
| SVR201 | 1 | SVR-08T3B103 | SEMI-VARIABLE RESISTOR |
| SVR301 | 1 | SVR-08T3B102 | SEMI-VARIABLE RESISTOR |
| **COILS** | | | |
| L301 | 1 | 104001 | AIR-CORE COIL |
| **MISCELLANEOUS** | | | |
| 1W 1 | 1 | 007S240011-C-I | SOLDER-PLATED WIRE |
| 1W28 | 2 | GT-M01W01 | GLASS TUBE |
| 2M28 | 2 | SH-1230-1 | HEAT SINK |
| 6M 2 | 2 | TSB+30X10-Y | TAP SCREW S, BIND HEAD, Y |
| 7M26 | 2 | 24WX0830-05-Y | PLAIN WASHER, Y |
| 8E13 | 2 | AC-261 | MICA |
| 8E17 | 1 | 171825-2 | MICRO PLUG |
| 8E19 | 2 | 171825-3 | MICRO PLUG |
| 8E21 | 2 | RP-001 | TERMINAL PIN |
| 8E29 | 51 | 5E-T05 | JUMP WIRE |
| JP201 | 1 | W-00608 | CONNECTOR |
| TP201 | 1 | WD-2 | TERMINAL PIN |
| TP203 | 1 | IPS-1136 | TERMINAL PIN |

R CH POWER AMP PCB ASS'Y

| REF. NO. | Q'TY | PART NO. | DESCRIPTION |
|---|---|---|---|
| **P.C.BOARD** | | | |
| 8E24 | 1 | MAR-593C | PRINTED CIRCUIT BOARD |
| **SEMICONDUCTORS** | | | |
| D202,204, 206,208, 210,212, 302,304, 306,308, 310,312, 314,316 | 14 | 1S1588 | DIODE |
| D318 | 1 | 1SS144 | DIODE |
| D320 | 1 | 1S1588 | DIODE |
| D322 | 1 | 1SS144 | DIODE |
| D324,326, 328 | 3 | 1S1588 | DIODE |
| D334,336 | 2 | 1N4003 | DIODE |
| Q202,204, 208,210, 212,214, 218 | 7 | 2SC2240-BL | TRANSISTOR |
| Q302 | 1 | 2SA1370-E,F | TRANSISTOR |
| Q304,306 | 2 | 2SC3467-E,F | TRANSISTOR |
| Q308 | 1 | 2SA1370-E,F | TRANSISTOR |
| Q310 | 1 | 2SC3281-R,O | TRANSISTOR |
| Q312 | 1 | 2SA1302-R,O | TRANSISTOR |
| Q322 | 1 | 2SC2240-BL | TRANSISTOR |
| Q326 | 1 | 2SB631K-E,F | TRANSISTOR |
| Q328 | 1 | 2SD600K-E,F | TRANSISTOR |
| Q336 | 1 | 2SC3467-E,F | TRANSISTOR |
| R206,216, 220,324, 338 | 5 | 2SA970-BL | TRANSISTOR |
| ZD202,204 | 2 | RD24E-B2 | ZENER DIODE,1/2W,24V |
| ZD302,304 | 2 | RD13E-B1 | DIODE |
| ZD306,308 | 2 | RD6.8E-B2 | ZENER DIODE,1/2W,6.8V |

| REF. NO. | Q'TY | PART NO. | DESCRIPTION |
|---|---|---|---|
| **CAPACITORS** | | | |
| C204 | 1 | LL-25TW100M | LOW LEAK. ELECTROLYTIC CAP. |
| C206 | 1 | HE90SJSL471K | CERAMIC CAPACITOR |
| C208 | 1 | NS-10TW221M | ELECTROLYTIC CAPACITOR |
| C210 | 1 | ECQV1H104JZ | METALLIZED FILM CAPACITOR |
| C212 | 1 | HE90SJSL391K | CERAMIC CAPACITOR |
| C214 | 1 | NS-16TW101M | ELECTROLYTIC CAPACITOR |
| C216,218 | 2 | NS-50TW2R2M | ELECTROLYTIC CAPACITOR |
| C220,222 | 2 | NS-25TW470M | ELECTROLYTIC CAPACITOR |
| C224 | 1 | NS-50TW1R0M | ELECTROLYTIC CAPACITOR |
| C226 | 1 | HM60SJSL680K | CERAMIC CAPACITOR |
| C302,304 | 2 | NS100TW4R7M | ELECTROLYTIC CAPACITOR |
| C306 | 1 | HM60SJSH220K | CERAMIC CAPACITOR |
| C308,310 | 2 | HE40SJY0102M | CERAMIC CAPACITOR |
| C312 | 1 | NS-16TW100M | ELECTROLYTIC CAPACITOR |
| C314 | 1 | NS-50TWR10M | ELECTROLYTIC CAPACITOR |
| C316,318 | 2 | HE60SJSL151K | CERAMIC CAPACITOR |
| C320,322 | 2 | HE40SJSL470K | CERAMIC CAPACITOR |
| C324 | 1 | MY100VS473K | MYLAR CAPACITOR |
| C330,332 | 2 | ECQV1H104JZ | METALLIZED FILM CAPACITOR |
| C334,336 | 2 | HE90SJSL471K | CERAMIC CAPACITOR |
| C338 | 1 | ECQV1H104JZ | METALLIZED FILM CAPACITOR |
| C340,342 | 2 | HE80SJSL331K | CERAMIC CAPACITOR |
| **RESISTORS** | | | |
| R202 | 1 | KA25ST104J | CARBON RESISTOR |
| R204 | 1 | KA25ST223J | CARBON RESISTOR |
| R206 | 1 | KA25ST471J | CARBON RESISTOR |
| R208,210 | 2 | KA25ST561J | CARBON RESISTOR |
| R212 | 1 | KA25ST182J | CARBON RESISTOR |
| R214 | 1 | KA25ST102J | CARBON RESISTOR |
| R216 | 1 | KA25ST911J | CARBON RESISTOR |
| R218 | 1 | KA25ST102J | CARBON RESISTOR |
| R220 | 1 | KA25ST331J | CARBON RESISTOR |
| R222 | 1 | KA25ST333J | CARBON RESISTOR |
| R224 | 1 | KA25ST103J | CARBON RESISTOR |
| R226 | 1 | SA-1WT562J-LP | METAL OXIDE RESISTOR |
| R228 | 1 | KA25ST102J | CARBON RESISTOR |
| R230,232 | 2 | KA25ST221J | CARBON RESISTOR |
| R234 | 1 | KA25ST682J | CARBON RESISTOR |
| R236,238 | 2 | KA25ST472J | CARBON RESISTOR |
| R240 | 1 | KA25ST471J | CARBON RESISTOR |
| R242 | 1 | FR50ST103J-LP | FLAME PROOF RESISTOR |
| R244 | 1 | KA25ST821J | CARBON RESISTOR |
| R246 | 1 | KA25ST102J | CARBON RESISTOR |
| R248 | 1 | KA25ST104J | CARBON RESISTOR |
| R250 | 1 | KA25ST471J | CARBON RESISTOR |
| R252 | 1 | FR50ST103J-LP | FLAME PROOF RESISTOR |
| R254 | 1 | KA25ST821J | CARBON RESISTOR |
| R256 | 1 | KA25ST102J | CARBON RESISTOR |
| R258,260 | 2 | KA25ST104J | CARBON RESISTOR |
| R262 | 1 | KA25ST223J | CARBON RESISTOR |
| R264 | 1 | FR25ST330J-LP | FLAME PROOF RESISTOR |
| R266,270 | 2 | KA25ST102J | CARBON RESISTOR |
| R272 | 1 | KA25ST272J | CARBON RESISTOR |
| R274 | 1 | FR25ST222J-LP | FLAME PROOF RESISTOR |
| R302 | 1 | FR25ST331J-LP | FLAME PROOF RESISTOR |
| R304 | 1 | FR25ST470J-LP | FLAME PROOF RESISTOR |
| R306 | 1 | FR25ST151J-LP | FLAME PROOF RESISTOR |
| R308 | 1 | FR25ST272J-LP | FLAME PROOF RESISTOR |
| R310 | 1 | KA25ST272J | CARBON RESISTOR |
| R312 | 1 | KA25ST333J | CARBON RESISTOR |
| R314 | 1 | KA25ST103J | CARBON RESISTOR |
| R316 | 1 | KA25ST333J | CARBON RESISTOR |
| R318 | 1 | KA25ST184J | CARBON RESISTOR |
| R320 | 1 | KA25ST333J | CARBON RESISTOR |
| R322 | 1 | KA25ST561J | CARBON RESISTOR |
| R324 | 1 | KA25ST333J | CARBON RESISTOR |
| R326,328 | 2 | FR25ST102J-LP | FLAME PROOF RESISTOR |
| R330 | 1 | FR25ST680J-LP | FLAME PROOF RESISTOR |
| R332 | 1 | FR25ST102J-LP | FLAME PROOF RESISTOR |
| R334 | 1 | FR25ST680J-LP | FLAME PROOF RESISTOR |
| R336,338 | 2 | SA-2WT123J-LP | METAL OXIDE RESISTOR |
| R340 | 1 | SA-2WT682J-LP | METAL OXIDE RESISTOR |
| R342 | 1 | KA25ST153J | CARBON RESISTOR |
| R344 | 1 | SA-2WT682J-LP | METAL OXIDE RESISTOR |
| R346 | 1 | KA25ST153J | CARBON RESISTOR |
| R348 | 1 | KA25ST123J | CARBON RESISTOR |
| R350 | 1 | KA25ST272J | CARBON RESISTOR |
| R352 | 1 | KA25ST102J | CARBON RESISTOR |
| R354 | 1 | FR25ST471J-LP | FLAME PROOF RESISTOR |
| R356 | 1 | FR25ST101J-LP | FLAME PROOF RESISTOR |
| R358 | 1 | KA25ST102J | CARBON RESISTOR |
| R360 | 1 | FR25ST471J-LP | FLAME PROOF RESISTOR |
| R362 | 1 | FR25ST101J-LP | FLAME PROOF RESISTOR |
| R364 | 1 | FR50ST331J-LP | FLAME PROOF RESISTOR |
| R366,368 | 2 | MPC722R22KX2LF | CEMENT RESISTOR |
| R370,372 | 2 | SA-2WT4R7J-LP | METAL OXIDE RESISTOR |
| R374,376 | 2 | FR25ST471J-LP | FLAME PROOF RESISTOR |
| R378,380 | 2 | FR25ST470J-LP | FLAME PROOF RESISTOR |
| R382 | 1 | KA25ST101J | CARBON RESISTOR |
| R384,386, 388,390 | 4 | FR50ST4R7J-LP | FLAME PROOF RESISTOR |
| R392 | 1 | KA25ST823J | CARBON RESISTOR |
| R394 | 1 | KA25ST104J | CARBON RESISTOR |
| SVR202 | 1 | SVR-09T3B103 | SEMI-VARIABLE RESISTOR |
| SVR302 | 1 | SVR-09T3B102 | SEMI-VARIABLE RESISTOR |
| **COILS** | | | |
| L302 | 1 | 104001 | AIR-CORE COIL |

| REF. NO. | Q'TY | PART NO. | DESCRIPTION |
|---|---|---|---|
| **MISCELLANEOUS** | | | |
| 1W 2 | 1 | 007S240011-C-I | SOLDER-PLATED WIRE |
| 1W 4 | 1 | 007S240N30-C-I | SOLDER-PLATED WIRE |
| 2M27 | 2 | SH-1230-1 | HEAT SINK |
| 6M 1 | 2 | TSB+30X10-Y | TAP SCREW S, BIND HEAD, Y |
| 7M25 | 2 | 2AWX0830-05-Y | PLAIN WASHER, Y |
| ME14 | 2 | AC-261 | MICA |
| ME18 | 2 | 171825-2 | MICRO PLUG |
| ME20 | 2 | 171825-3 | MICRO PLUG |
| ME22 | 1 | RP-001 | TERMINAL PIN |
| ME30 | 54 | 5E-T05 | JUMP WIRE |
| JP202 | 1 | W-00608 | CONNECTOR |
| TP202 | 1 | W0-2 | TERMINAL PIN |
| TP204 | 1 | IPS-1136 | TERMINAL PIN |

POWER SUPPLY/PROTECT PCB ASS'Y

| REF. NO. | Q'TY | PART NO. | DESCRIPTION |
|---|---|---|---|
| **P.C.BOARD** | | | |
| 2E11 | 1 | PS-594D | PRINTED CIRCUIT BOARD |
| **SEMICONDUCTORS** | | | |
| D401 | 1 | 1SS144 | DIODE |
| D402 | 1 | 1N4003 | DIODE |
| D403 | 1 | 1S4842 | DIODE |
| Q401~403 | 3 | 2SC2240-GR,BL | TRANSISTOR |
| IC401 | 1 | NJM78M18A | IC |
| IC402 | 1 | NJM79M18A | IC |
| IC403 | 1 | TA7317P | IC |
| **CAPACITORS** | | | |
| C401,402 | 2 | NS-10TW470M-KF | ELECTROLYTIC CAPACITOR |
| C403 | 1 | NS-10TW220M-KF | ELECTROLYTIC CAPACITOR |
| C404 | 1 | NS-50TWR47M-KF | ELECTROLYTIC CAPACITOR |
| C405 | 1 | MY-50VU102K-KF | MYLAR CAPACITOR |
| C406,407 | 2 | ECQV1H104JZ-KF | METALIZED FILM CAPACITOR |
| C408,409 | 2 | NS-50TW331M-KF | ELECTROLYTIC CAPACITOR |
| C410 | 1 | MS100TW1R0M-KF | ELECTROLYTIC CAPACITOR |
| C411,412 | 2 | BC0A103M180EE3 | ELECTROLYTIC CAPACITOR |
| C413,414 | 2 | BC80103MC80EE4 | ELECTROLYTIC CAPACITOR |
| **RESISTORS** | | | |
| R401~404 | 4 | KA25ST563J | CARBON RESISTOR |
| R405 | 1 | KA25ST224J | CARBON RESISTOR |
| R406 | 1 | KA25ST473J | CARBON RESISTOR |
| R407 | 1 | KA25ST563J | CARBON RESISTOR |
| R408 | 1 | KA25ST333J | CARBON RESISTOR |
| R409~411 | 3 | KA25ST223J | CARBON RESISTOR |
| R412 | 1 | KA25ST183J | CARBON RESISTOR |
| R413 | 1 | SA-2WT471J-LP | METAL OXIDE RESISTOR |
| R414 | 1 | KA25ST823J | CARBON RESISTOR |
| R415 | 1 | KA25ST473J | CARBON RESISTOR |
| R416 | 1 | SA-1WT123J-LP | METAL OXIDE RESISTOR |
| R417 | 1 | KA25ST622J | CARBON RESISTOR |
| R418 | 1 | KA25ST154J | CARBON RESISTOR |
| R419 | 1 | KA25ST223J | CARBON RESISTOR |
| R420 | 1 | KA50XT272J | CARBON RESISTOR |
| R421,422 | 2 | KA25ST332J | CARBON RESISTOR |
| **MISCELLANEOUS** | | | |
| 1W 5 | 1 | 007S240B04-J-J | SOLDER-PLATED WIRE |
| 1W 9 | 2 | 007Y180B25-C-C | SOLDER-PLATED WIRE |
| 1W10 | 1 | 007Y180R27-C-E | TWISTED WIRE |
| 1W11 | 1 | 007Y180W27-C-E | TWISTED WIRE |
| 1W14 | 2 | 468S248B15-J-Z | 8-LEAD, FLAT CABLE |
| 5M 9 | 2 | TSB+30X08-B | TAP SCREW S, BIND HEAD, B |
| JP401 | 1 | W-00604 | CONNECTOR |
| RL401,402 | 2 | PXS-2405U | RELAY |
| 10E 3 | 3 | RP-001 | TERMINAL PIN |
| 10E 5 | 2 | SE-25-BSB | HEAT SINK |
| 10E12 | 1 | 171825-3 | MICRO PLUG |
| 10E17 | 11 | 5E-T05 | JUMP WIRE |
| 10E19 | 1 | YKD31-0212 | SOCKET 4P (S.P) |
| PTC601,602 | 2 | RDE185A | P.T.C |

FUSE PCB ASS'Y

| REF. NO. | Q'TY | PART NO. | DESCRIPTION |
|---|---|---|---|
| P.C.BOARD | | | |
| 2E12 | 1 | FU-594D | PRINTED CIRCUIT BOARD |
| SEMICONDUCTORS | | | |
| D601 | 1 | MB252 | DIODE |
| D602 | 1 | BR-64-LF | DIODE |
| MISCELLANEOUS | | | |
| F601~604 | 4 | FU-621034T | FUSE |
| F605,606 | 2 | FU-621024T | FUSE |
| 2M10 | 1 | N44234B | HEAT SINK |
| 7M18 | 1 | TSB+40X16-Y | TAP SCREW S, BIND HEAD, Y |
| 11E 1 | 12 | S-N5051 | FUSE HOLDER |
| 11E 9 | 2 | 1MSA-1068-06D | MINI TERMINAL PLATE |
| 11E10 | 2 | 1MSA-1068-02D | MINI TERMINAL PLATE |
| 11E11 | 1 | WB-3 | TERMINAL PIN |
| 11E12 | 1 | WB-4 | TERMINAL PIN |
| 11E13 | 2 | 5E-T05 | JUMP WIRE |

PRIMARY FUSE PCB ASS'Y

| REF. NO. | Q'TY | PART NO. | DESCRIPTION |
|---|---|---|---|
| P.C.BOARD | | | |
| 2E13 | 1 | PFU-594D | PRINTED CIRCUIT BOARD |
| CAPACITORS | | | |
| C501 | 1 | ECQU1A103MH | METALLIZED FILM CAPACITOR |
| MISCELLANEOUS | | | |
| F501 | 1 | FU-621034T-C | FUSE |
| 10E23 | 2 | S-N5051 | FUSE HOLDER |
| 10E25 | 2 | WC-3 | TERMINAL PIN |

INDICATORS PCB ASS'Y

| REF. NO. | Q'TY | PART NO. | DESCRIPTION |
|---|---|---|---|
| P.C.BOARD | | | |
| 2E14 | 1 | LED-594D | PRINTED CIRCUIT BOARD |
| SEMICONDUCTORS | | | |
| LD801 | 1 | SLR-34VC5F | LED |
| LD802 | 1 | SLR-34YC5F | LED |
| MISCELLANEOUS | | | |
| 1W15 | 1 | 468S263331-J-J | 3-LEAD, FLAT CABLE |
| 1W16 | 1 | 468S263B14-J-J | 3-LEAD, FLAT CABLE |
| JP801 | 1 | MC03-538 | MICRO SOCKET ASS'Y |
| JP802 | 1 | MC02-539 | MICRO SOCKET ASS'Y |

POWER INDICATOR PCB ASS'Y

| REF. NO. | Q'TY | PART NO. | DESCRIPTION |
|---|---|---|---|
| P.C.BOARD | | | |
| 2E15 | 1 | LD-594D | PRINTED CIRCUIT BOARD |
| SEMICONDUCTORS | | | |
| LD804 | 1 | SLP246B | LED |

INDICATOR PCB ASS'Y

| REF. NO. | Q'TY | PART NO. | DESCRIPTION |
|---|---|---|---|
| P.C.BOARD | | | |
| 2E16 | 1 | PLD-594D | PRINTED CIRCUIT BOARD |
| SEMICONDUCTORS | | | |
| LD701 | 1 | SLP146B | LED |

INPUT VOLUME PCB ASS'Y

| REF. NO. | Q'TY | PART NO. | DESCRIPTION |
|---|---|---|---|
| P.C.BOARD | | | |
| 11E16 | 1 | VR-692 | PRINTED CIRCUIT BOARD |
| CAPACITORS | | | |
| C901,902 | 2 | NP-25TW100M | ELECTROLYTIC CAPACITOR |
| C903 | 1 | LL-25TW4R7M | LOW LEAK. ELECTROLYTIC CAP. |
| RESISTORS | | | |
| VR901,902 | 2 | VBV16-502B10K6 | ROTARY POTENTIONMETER |
| MISCELLANEOUS | | | |
| 2M14 | 1 | N44964 | GND PLATE |
| 11E19 | 1 | 171826-6 | MICRO PLUG |
| 11E27 | 2 | 5E-T05 | JUMP WIRE |

INPUT PCB ASS'Y

| REF. NO. | Q'TY | PART NO. | DESCRIPTION |
|---|---|---|---|
| P.C.BOARD | | | |
| 11E17 | 1 | SW-692 | PRINTED CIRCUIT BOARD |
| SEMICONDUCTORS | | | |
| Q101 | 1 | 2SC2240-GR | TRANSISTOR |
| Q102 | 1 | 2SA970-GR | TRANSISTOR |
| IC101,102 | 2 | NJM2043DD | IC |
| CAPACITORS | | | |
| C101~104 | 4 | ECQV1H684JZ-KF | METALIZED FILM CAPACITOR |
| C105,106 | 2 | MY-50VU102J | MYLAR CAPACITOR |
| C107,108 | 2 | ME12SJSL821J | CERAMIC CAPACITOR |
| C109,110 | 2 | LL-25TW100M | LOW LEAK. ELECTROLYTIC CAP. |
| C111~114 | 4 | HE70SJYF103Z | CERAMIC CAPACITOR |
| C115,116 | 2 | NS-10TW101M | ELECTROLYTIC CAPACITOR |
| C117~119 | 3 | HE50SJSL101K | CERAMIC CAPACITOR |
| C120 | 1 | LL-25TW4R7M | LOW LEAK. ELECTROLYTIC CAP. |
| C121,122 | 2 | HE50SJSL101K | CERAMIC CAPACITOR |
| C123,124 | 2 | NS-25TW470M | ELECTROLYTIC CAPACITOR |
| RESISTORS | | | |
| R101,102 | 2 | KA25ST224J | CARBON RESISTOR |
| R103,104 | 2 | KA25ST103J | CARBON RESISTOR |
| R105,106 | 2 | KA25ST393J | CARBON RESISTOR |
| R107~110 | 4 | KA25ST222J | CARBON RESISTOR |
| R111,112 | 2 | KA25ST104J | CARBON RESISTOR |
| R113,114 | 2 | KA25ST101J | CARBON RESISTOR |
| R115,116 | 2 | KA25ST104J | CARBON RESISTOR |
| R117~122 | 6 | KA25ST102J | CARBON RESISTOR |
| R123,124 | 2 | KA25ST681J | CARBON RESISTOR |
| R125,127, 128 | 3 | KA25ST101J | CARBON RESISTOR |
| R129 | 1 | KA25ST102J | CARBON RESISTOR |
| R130,131 | 2 | KA25ST222J | CARBON RESISTOR |
| SWITCHES | | | |
| S101,102 | 2 | SS8022 | SLIDE SWITCH |
| MISCELLANEOUS | | | |
| 1E 5 | 2 | YKC21-0069 | RCA JACK 2P |
| 1E24 | 8 | 5E-T05 | JUMP WIRE |
| 1W 3 | 1 | 0075240810-C-D | SOLDER-PLATED WIRE |
| 1W13 | 1 | 468S244808-J-Z | 4-LEAD, FLAT CABLE |
| 8M 6 | 1 | 2AE-03 | LUG |
| JP101,102 | 2 | MC02-533 | MICRO SOCKET ASS'Y |
| JP103 | 1 | MC03-377 | MICRO SOCKET ASS'Y |
| JP104 | 1 | MC03-378 | MICRO SOCKET ASS'Y |
| JP105 | 1 | MC06-534 | MICRO SOCKET ASS'Y |
| JP402 | 1 | MC03-537 | MICRO SOCKET ASS'Y |
| JP403 | 1 | MC03-536 | MICRO SOCKET ASS'Y |
| 12E11 | 1 | BK-1 | CORD CLAMP |

P.C.BOARD ASS'Y

| REF. NO. | Q'TY | PART NO. | DESCRIPTION |
|---|---|---|---|
| 2P11 | 1 | 48A1P02A-1 | POWER SUPPLY/PROTECT PCB ASS'Y |
| 2P12 | 1 | 48A1P02A-2 | FUSE PCB ASS'Y |
| 2P13 | 1 | 48A1P02A-3 | PRIMARY FUSE PCB ASS'Y |
| 2P14 | 1 | 48A1P02A-4 | INDICATORS PCB ASS'Y |
| 2P15 | 1 | 48A1P02A-5 | INDICATOR PCB ASS'Y |
| 2P16 | 1 | 48A1P02A-6 | POWER INDICATOR PCB ASS'Y |
| BP23 | 1 | 48A1P01A-1 | L CH POWER AMP PCB ASS'Y |
| BP24 | 1 | 48A1P01A-2 | R CH POWER AMP PCB ASS'Y |
| 11P16 | 1 | 48A1P03A-1 | INPUT VOLUME PCB ASS'Y |
| 11P17 | 1 | 48A1P03A-2 | INPUT PCB ASS'Y |

EXPLODED VIEW

| REF. NO. | Q'TY | PART NO. | DESCRIPTION |
|---|---|---|---|
| SEMICONDUCTORS | | | |
| D329~332 | 4 | D6K20 | DIODE |
| Q313,314 | 2 | 2SC3281-R,O | TRANSISTOR |
| Q315,316 | 2 | 2SA1302-R,O | TRANSISTOR |
| Q317,318 | 2 | 2SC3281-R,O | TRANSISTOR |
| Q319,320, 329,330 | 4 | 2SA1302-R,O | TRANSISTOR |
| Q331,332 | 2 | 2SC3281-R,O | TRANSISTOR |
| Q333,334 | 2 | 2SC1953-R,S | TRANSISTOR |
| COILS | | | |
| 12E 1 | 1 | NPT-2274S | POWER TRANSFORMER |
| SWITCHES | | | |
| S001 | 1 | ESB-99713V | POWER SWITCH |
| S002 | 1 | SW-5220179 | SWITCH |
| MISCELLANEOUS | | | |
| 1M 1. | 1 | N21460-1A | FRONT PANEL |
| 1M 3. | 1 | N21461A-1A | FRONT SUB PANEL |
| 1M 6 | 1 | 62-3480-0-0 | BUTTON FRAME |
| 1M 7 | 1 | 62-1111-1-0 | PUSH BUTTON |
| 1M 8. | 2 | N44882 | LED CHIP |
| 1M11 | 2 | KNB0448-0226 | KNOB 18 (POTENTIOMETER) |

| REF. NO. | Q'TY | PART NO. | DESCRIPTION |
|---|---|---|---|
| 1M16 | 1 | N21462-1 | REAR PANEL |
| 1M18 | 1 | N21463 | CABINET |
| 1M19 | 1 | N21464 | BOTTOM BOARD |
| 1M21 | 1 | N44236 | LOCK PLATE |
| 1M26 | 4 | NO.7103-UL | FOOT |
| 2E29 | 12 | AC-261 | MICA |
| 2M 1 | 1 | N21465 | FRONT ,BOTTOM CHASSIS |
| 2M 2 | 1 | N30811U | SUPPORT CHASSIS (P.T.) |
| 2M 3 | 1 | N30956 | FRONT SUB CHASSIS L |
| 2M 4 | 1 | N30957 | FRONT SUB CHASSIS R |
| 2M 5 | 2 | N30958 | SIDE CHASSIS |
| 2M 6 | 2 | N30812A | CENTER CHASSIS |
| 2M 8 | 1 | N44232 | FITTINGS R (HEAT SINK) |
| 2M 9 | 1 | N44233 | FITTINGS L (HEAT SINK) |
| 2M11 | 2 | N44235 | FITTINGS (THERMAL RELAY) |
| 2M16 | 1 | N44336 | SHIELD COVER |
| 2M17 | 1 | N44966 | CUSHION (P.T.) |
| 2M18 | 1 | N44967-35 | CABINET MAT |
| 2M20 | 2 | N44996 | SPACER |
| 2M21 | 1 | N44931 | SPACER |
| 2M22 | 1 | N44997 | SHIELD CUSHION |
| 2M26 | 2 | N21240 | HEAT SINK |
| 3M13 | 1 | N44043-1 | LABEL, SA1965(LIGHTNING FLASH) |
| 3M14 | 2 | N44525 | LABEL, FUSE |
| 3M21~M23 | 5 | SL.1024 | LABEL, SERIAL NO. |
| 4M 1 | 3 | TSB+26X05-B | TAP SCREW S, BIND HEAD, B |
| 4M 4 | 1 | TSB+30X05-N | TAP SCREW S, BIND HEAD, N |
| 4M 6~M10, M14,M15, M18,M19 | 18 | TSB+30X06-Y | TAP SCREW S, BIND HEAD, Y |
| 4M21~M25 | 12 | TSB+30X06-B | TAP SCREW S, BIND HEAD, B |
| 4M30 | 1 | TSC+30X06-N | TAP SCREW S, WASHER FACED, N |
| 5M 2~M 8 | 14 | TSB+30X08-B | TAP SCREW S, BIND HEAD, B |
| 5M16~M24 | 12 | TSC+30X08-Y | TAP SCREW S, WASHER FACED, Y |
| 5M26,M27 | 4 | TSS+30X08-Y | TAP SCREW S, FLAT HEAD, Y |
| 6M 5 | 2 | TBB+26X08-B | TAP SCREW B, BIND HEAD, B |
| 6M 6~M 9 | 9 | TBB+30X08-Y | TAP SCREW B, BIND HEAD, Y |
| 6M16~M21 | 20 | TBB+30X12-Y | TAP SCREW B, BIND HEAD, Y |
| 6M26~M30 | 7 | TPM+30X08-B | TAP SCREW P, ROUND HEAD, B |
| 7M 6~M 9 | 6 | TSB+40X08-B | TAP SCREW S, BIND HEAD, B |
| 7M14 | 4 | TST+40X08-Y | TAP SCREW S, TRUSS, Y |
| 7M16 | 4 | TSP+40X12-Y | TAP SCREW S, PAN HEAD, Y |

| REF. NO. | Q'TY | PART NO. | DESCRIPTION |
|---|---|---|---|
| 7M21 | 2 | 2AWX0826-05-B | PLAIN WASHER, B |
| 7M23,M24 | 12 | 2AWX0830-05-Y | PLAIN WASHER, Y |
| 7M30 | 2 | 2AWX0830-05-B | PLAIN WASHER, B |
| RM 1 | 6 | 2AWX0940-05-B | PLAIN WASHER, B |
| RM 9 | 1 | 2AE-05 | LUG |
| TS301,302 | 2 | U12-10005-240A | THERMAL RELAY |
| 12E 2 | 1 | T120AR1U1-3 | THERMAL RELAY |
| 12E 3 | 1 | ACC-035D5-9EK1 | LINE CORD |
| 12E 4 | 1 | SR-4N-4 | CORD STOPPER |
| 12E 8 | 2 | NO.5219 | BUSH |

PACKING PARTS

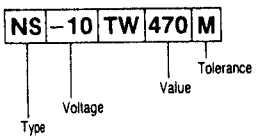
| REF. NO. | Q'TY | PART NO. | DESCRIPTION |
|---|---|---|---|
| MISCELLANEOUS | | | |
| 3M 1 | 1 | N21476 | SHIPPING CARTON |
| 3M 2 | 1 | N21477A | SHIPPING CARTON |
| 3M 3 | 1 | N45011 | POLYETHYLENE BAG |
| 3M 4 | 1 | N40487 | POLYETHYLENE BAG (ACCESSORIES) |
| 3M 6 | 2 | N21242A | PACKING PAD |
| 3M11 | 1 | UM-674A | INSTRUCTION MANUAL |
| 3M12 | 1 | N44687 | CAUTION SHEET, POLARIZED PLUG |
| 3M16 | 1 | NAD-WC2 | CARD, WARRANTY REGISTRATION |

OTHER PARTS

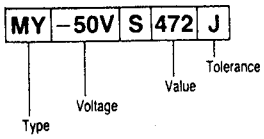
| REF. NO. | Q'TY | PART NO. | DESCRIPTION |
|---|---|---|---|
| MISCELLANEOUS | | | |
| 1W 6 | 1 | 6725220B15-D-E | SOLDER-PLATED WIRE |
| 1W 7 | 1 | 6725220W13-D-E | SOLDER-PLATED WIRE |
| 1W17 | 8 | U9-#06B015 | UL TYPE TUBE |
| 1W19 | 3 | U9-#09B02 | UL TYPE TUBE |
| 1W21 | 1 | GT-M08W05 | GLASS TUBE |
| 1W22 | 1 | GT-M10W33 | GLASS TUBE |
| 1W26 | 1 | 6725220A36-D-E | SOLDER-PLATED WIRE |
| 1W27 | 1 | 6725220N30-D-E | SOLDER-PLATED WIRE |
| 12E12 | 6 | BK-1 | CORD CLAMP |
| 12E14,E15 | 8 | NO.5167 | CORD CLAMP |
| 12E17 | 1 | R164P | CORD BAND |

## Capacitors Description

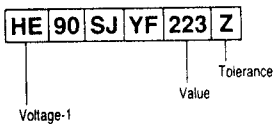
- **Electrolytic**

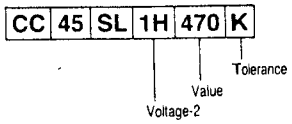


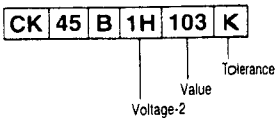

- **Mylar · Styrol**




- **Ceramic**




- **Electrolytic**

| Type | Voltage | Value | Tolerance |
|---|---|---|---|
| LL: Low Leak | -10: 10V | R47: 0.47μF | K: ±10% |
| NP: Non-Pole | -50: 50V | 4R7: 4.7μF | M: ±20% |
| NS: Standard | 6R3: 6.3V | 470: 47μF | |
| | | 471: 470μF | |
| | | 472: 4700μF | |

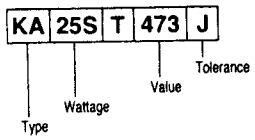
- **Mylar · Styrol**

| Type | Voltage | Value | Tolerance |
|---|---|---|---|
| MY: Mylar | -25V: 25V | 4R7: 4.7pF | G: ±2% |
| ST: Styrol | 125V: 125V | 470: 47pF | J: ±5% |
| | -63T: 63V | 471: 470pF | K: ±10% |
| | | 472: 4700pF | M: ±20% |
| | | 473: 0.047μF | |
| | | 474: 0.47μF | |
| | | (1000pF=0.001μF) | |

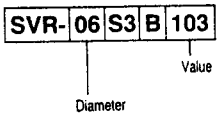
| Voltage-1 | Voltage-2 | Value | Tolerance |
|---|---|---|---|
| HC: 25V | 1E: 25V | 4R7: 4.7pF | C: ±0.25pF |
| HE: 50V | 1H: 50V | 470: 47pF | D: ±0.5pF |
| H: 100V | 2H: 500V | 471: 470pF | F: ±1pF |
| HK: 250V | | 472: 4700pF | J: ±5% |
| HM: 500V | | 473: 0.047μF | K: ±10% |
| | | 474: 0.47μF | M: ±20% |
| | | (1000pF=0.001μF) | Z: +80~-20% |

## Resistors Description

- **Fixed**




- **Semi-Variable**




| Type | Wattage | Value | Tolerance | Diameter |
|---|---|---|---|---|
| CE: Cement Case | -2W: 2W | R47: 0.47Ω | M: ±20% | 08: 8φ |
| FR: Flame Proof | 10W: 10W | 4R7: 4.7Ω | K: ±10% | 10: 10φ |
| KA: Carbon | 16S: 1/6W | 470: 47Ω | J: ±5% | 06: 6φ |
| MF: Metal Film | 20S: 1/5W | 471: 470Ω | G: ±2% | |
| RF: Fusible | 25S: 1/4W | 472: 4.7kΩ | F: ±1% | |
| SA: Metal Oxide | 50S: 1/2W | 473: 47kΩ | D: ±0.5% | |
| | 50X: 1/2W | 474: 470kΩ | | |
| | S3W: 3W | 475: 4.7MΩ | | |